

**METHUEN HIGH SCHOOL
PROGRAM OF STUDIES
2018-2019**



**Methuen Public Schools
Methuen, Massachusetts**

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A MESSAGE FOR STUDENTS AND FAMILIES

Dear Methuen High School Students, Parents, and Guardians:

The Methuen High School Program of Studies guides students and families through the course selection process for the upcoming school year. The document contains detailed information including, but not limited to, graduation requirements, program information, and course descriptions. Although the course offerings are varied and numerous, every pathway is designed to provide students with opportunities for academic, social, and emotional growth.

Students are encouraged to identify courses in the Program of Studies that pique their interest and challenge their abilities. Through the course selection process students are able to customize their learning experiences to align with postsecondary and career goals. It is imperative that when carefully considering courses, students seek and value input from those who have a vested interest in their education: parents, teachers, guidance counselors, and school administrators.

Methuen High School offers a wide variety of courses to prepare graduates for a myriad of college and career options. A strong and well thought out course load will provide every student with unique, long-lasting, enriching learning experiences. Take advantage of all that Methuen High School offers and enjoy the journey.

Sincerely,



Richard Barden
Principal

Methuen Public Schools reserves the right to make necessary changes to information in the Program of Studies.

Foreword

Methuen High School is a four-year comprehensive school which is fully accredited by the New England Association of Schools and Colleges. The Program of Studies is designed to inform and assist students and their parents/guardians in the selection of courses. This document should be consulted and utilized when making decisions regarding course requests. Methuen High School Graduation Requirements, which are outlined below, drive course requests and student schedules. It is strongly encouraged that student course requests be based upon educational and career goals, academic ability, past achievement, and areas of interest.

POLICIES OF METHUEN HIGH SCHOOL

Non-Discrimination Policy

It is the policy of the Methuen Public Schools not to discriminate on the basis of gender, race, religion, color, disability, or ethnicity in its educational programs, activities or employment policies as required by Title IX of the 1972 Education Amendments, Chapter 622 of the Acts of 1971, and Section 504 of the Rehabilitation Act.

The Commonwealth of Massachusetts has enacted Chapter 71A. This legislation provides for the education of all limited English proficiency students. The Methuen School District complies with this mandate in order to provide students with equal access to quality education. The Methuen Public Schools also provide appropriate services for low incidence language minority students as required by the Civil Rights Act of 1964 and the Supreme Court decision of Lau vs. Nichols.

Core Values, Beliefs, Learning Expectations, and School-wide Rubrics

established through the 2017 review and revision cycle

Core Values

- Patience Respect Integrity Determination and Excellence (P.R.I.D.E.)
- Diversity
- Responsibility
- Achievement
- Community
- Creativity and Innovation

Beliefs

- Students learn best when they take responsibility and pride in their education and character.
- Student learning should be supported by partnerships between the school and extended community.
- All students have the potential to achieve in rigorous courses.
- Honoring diversity is a cornerstone of a safe and rewarding learning community.
- Creativity, innovation, and ingenuity should be fostered through instructional support which encourages authentic problem solving.
- Social, psychological, and emotional well-being promote student success.

21st Century Learning Expectations

Academic Competencies:

1. Students will demonstrate effective communication and literacy skills for varied contexts and purposes.
2. Students will engage in critical thinking independently and/or collaboratively to creatively solve problems and accomplish goals.
3. Students will effectively utilize media and technology to research information with adaptability.

Social Competency:

4. Students will embrace diversity through cultural understanding and value personal, social and emotional well-being.

Civic Competency:

5. Students will aspire to be contributing members of the school and extended community through their participation and embodiment of good citizenship.

School-wide Rubrics

The five school-wide rubrics used to measure each student's progress toward each of our learning expectations can be found on the MHS 21st Century Learning Expectations [webpage](#).

NEASC Accreditation

Methuen High School is accredited by The New England Association of Schools and Colleges (NEASC), "a private, non-profit regional accrediting association that offer programs and services which monitor school performance and school improvement efforts," as stated in the 2018 NEASC Accreditation Handbook:

The mission of the [NEASC] Commission on Public Schools...is to maximize student learning and to promote the Standards which articulate best practices about student learning and the support of learning. [Accreditation] indicates that the educational institution has conducted a self-evaluation of all of its programs and hosted a visiting team to evaluate the institution in terms of its own stated educational goals and the Standards for Accreditation. The Standards for Accreditation are a research-based set of practices and concepts that provide guidance to schools

on all aspects of the education – academic, civic, and social – of the young people under their care...The awarding of Accreditation signifies that the school has met the Standards for Accreditation at an acceptable level and is committed to both maintain those Standards and to improve its educational program by implementing the recommendations of the visiting team and the Commission. Continued Accreditation is dependent upon a school demonstrating ongoing, reflective progress to improve teaching and learning and the support of teaching and learning.

Graduation Requirements

To be eligible for graduation with a Methuen High School diploma, a student must matriculate for four full years at the high school level (9-12) and complete Methuen High School's graduation requirements. Upon successful completion of the Methuen Public Schools and state graduation requirements, a diploma will be awarded based upon the year in which the requirements were met (unless otherwise authorized by the principal).

Note: MCAS requirements for graduation have not been determined for classes of 2021 and after.

MassCore

MassCore is the recommended program of study that Massachusetts high school students need in order to be better prepared for college and a career. Developed by a statewide advisory group from the K-12, higher education and business sectors, MassCore maintains flexibility for students and high schools while allowing districts to set additional graduation requirements. Courses included in MassCore should be rigorous, engaging, and based on appropriate Massachusetts Curriculum Frameworks high school level standards.

Minimum Credit Requirements for Graduation

<u>Subject</u>	<u>Required Credits</u>	<u>MassCore Recommendations</u>
English	4.0 Credits	4.0 Credits
Math	4.0 Credits	4.0 Credits
Science	3.0 Credits	3.0 Credits
Social Studies	3.0 Credits	3.0 Credits
Foreign Language	2.0 Credits (Class of 2022)	2.0 Credits
Fine Arts	1.0 Credits (Class of 2022)	1.0 Credit
Physical Education	2.0 Credits	0.0 Credit
Health	1.0 Credit	0.0 Credit
Electives	4.0 Credits	NA
TOTAL	24.0 Credits	

State Requirements for Graduation

In Massachusetts, students in classes 2018, 2019, 2020 need to score at least a 220 (Needs Improvement) on all three (3) Grade 10 MCAS exams (English Language Arts, Mathematics, Science and Technology/Engineering) in order to graduate with a high school diploma. Students have more than one opportunity each year to retest if they are unable to meet the competency determination in their first attempt.

Failed Courses/Credit Denial – Recovering Credits

Students who fail a course or are denied course credit due to attendance are strongly encouraged to attend Methuen High School summer school or night school to recover the credit. Information regarding summer school registration is available at the end of each school year. See your guidance counselor for more information regarding Night School admittance. Recovering credits from educational institutions other than Methuen High School is possible, but must be approved by the Supervising Principal prior to taking the course.

Dual Enrollment

The Dual Enrollment Program, established by the Education Reform Act of 1993, provides access to higher education for qualified high school students. The Commonwealth of Massachusetts, through the Department of Elementary and Secondary Education (DESE) and subject to appropriation, will reimburse Massachusetts public institutions of higher education an amount per credit for tuition and fees for participating students. This is a state-sponsored program administered by DESE that is available to high school students who reside in Massachusetts and wish to attend a state higher education institution. The students can simultaneously earn both high school and college credit through this program. Please see your guidance counselor for more information.

Report Cards/Progress Reports

Report Cards and Progress Reports are available through Infinite Campus via the Parent Portal and the Student Portal. Report Cards are published four times during the school year at the completion of each academic quarter/term. Grades are recorded by letters which indicate the scholastic achievement of the student for that marking period. Progress reports are posted midway through each of the four terms. Parents/Guardians should expect to access either a progress report or report card approximately every 5 to 6 weeks. Please refer to the school calendar for dates.

Honor Roll

The Honor Roll at Methuen High School is determined each term based on the point system below.

Students earn:

- Five (5) points for each A earned in that term;
- Four (4) points for each B earned in that term;
- Zero (0) points for each C, D, or F earned in that term.
- Students earning D's and F's will not be eligible regardless of point value.
- The Honor Roll considers all grades equitably regardless of course level.

Highest Honors is achieved if a student has:	35 points
High Honors is achieved if a student has:	33-34 points
Honors is achieved if a student has:	31-32 points
There is no academic distinction for fewer than 31 points.	

Course Levels/ Grade Point Average (GPA)

There are three academic course levels. Courses designated as College Preparatory, Honors, or Advanced Placement are weighted by degree of difficulty and enter into the calculation of the Grade Point Average (GPA). Unweighted courses are not included in the calculation of a student's GPA. Both weighted and unweighted courses appear on a student's transcript and are part of the permanent record. For weighted courses, the level designation is printed next to the course title. College Preparatory as College Prep, Honors as Honors and Advanced Placement as AP. Unweighted courses carry no designation.

Advanced Placement (AP) – The curriculum for Advanced Placement (AP) courses is designated and approved by The College Board. These courses are the most rigorous available in the high school's curriculum. For AP courses, students are expected to take an AP Exam for the course in May. Depending upon AP Exam results and college requirements, college credit may be granted for these courses. Successful completion of a college course awards dual credit, at both MHS and the college. Teacher recommendation is strongly preferred.

Honors (HON) – These courses prepare students for the selective four-year colleges and universities. With accelerated instruction, honors courses are designed for students with a strong fundamental knowledge of the subject, notable critical thinking ability, and

independent study skills. Honors classes should be expected to move at a faster pace than college preparatory courses and often have higher expectations for the amount and level of work. Teacher recommendation preferred, but not required.

College Preparatory (College Prep) – College preparatory courses are designed to prepare students for four-year colleges and universities and these classes meet the application requirements for most 4-year colleges. College preparatory courses are suitable for students who are capable of responsible, independent study of academic subjects.

Grade Point Average (GPA) is calculated using the table below. Grades from weighted courses (College Prep - AP) are converted into points and averaged together. A student's cumulative GPA is comprised of course grades from Grades 9 through 12.

Grading System		Points based on Course Levels			
		AP	Honors	College Prep	Unleveled
94–100	A	5.0	4.5	4.0	<i>Unweighted; not calculated into GPA</i>
90-93	A-	4.7	4.2	3.7	
87-89	B+	4.33	3.8	3.3	
84-86	B	4.0	3.5	3.0	
80-83	B-	3.7	3.2	2.7	
77-79	C+	3.3	2.8	2.3	
74-76	C	3.0	2.5	2.0	
70-73	C-	2.7	2.2	1.7	
67-69	D+	2.3	1.8	1.3	
64-66	D	2.0	1.5	1.0	
60-63	D-	1.7	1.2	0.7	
0-59	F	0.0	0.0	0.0	

Graduation with Honors

Any senior who satisfies the GPA requirements at Methuen High School will be eligible to graduate with honors. To determine a student's status for graduating with honors, GPA will be calculated at the end of the third term of the senior year.

Graduation with Highest Honors is achieved if a student satisfies the GPA requirement of: **4.1 and above**

Graduation with High Honors is achieved if a student satisfies the GPA requirement of: **3.8 - 4.099**

Graduation with Honors is achieved if a student satisfies the GPA requirement of: **3.5 - 3.799**

There is no graduation distinction for a student with a GPA below 3.5.

National Honor Society

The objectives of the Methuen High School Chapter of the National Honor Society are to create an enthusiasm for scholarship, stimulate a desire to render service, promote leadership, and develop character in students. Candidates shall have spent at least one semester at Methuen High School and shall be members of the junior or senior class. A student must have achieved a minimum cumulative GPA of 3.7 to be considered a candidate for the National Honor Society. These students are then eligible for consideration on the basis of service, leadership, and character. A faculty council will review applications to determine acceptance into the Methuen High School Chapter of the Nation Honor Society.

THE GUIDANCE DEPARTMENT

The Methuen High School Guidance Department welcomes all students. It is the school's mission to support students comprehensively by addressing their needs in three key areas: academic planning and advising, postsecondary/transition planning, and social emotional services and supports. Each counselor meets with his/her caseload of ninth graders and follows him/her throughout his/her four years in order to build a strong relationship with each student and his/her family. Counseling staff initiate meetings with students, and students have open access to initiating contact with their counselor by requesting a meeting. Counselors seek to honor these requests for appointments within one to two days. In the event of a crisis, students have open

access to their counselor or any counseling staff member who is available. Specifically, our duties entail:

Academic Planning and Advising: This program supports students in making informed decisions that will help them excel academically, meet state mandates, and participate in graduation on time with their peers. To this end, course request information will be given to all students in Grades 8 through 11. The process for requesting courses begins with course level recommendations by teachers. Students and parents/guardians then complete the request process online via the Infinite Campus Parent Portal. The process is concluded with a face-to-face meeting between the student and her/his guidance counselor.

Postsecondary Planning: The established partnership with *Naviance* provides a powerful, web-based tool to enhance communication and collaboration between students, parents, and counselors regarding career and college planning. *Naviance* is the portal through which students manage various components of their college applications. Students and parents are encouraged to use this tool in order to best plan for life after high school. Students can login to *Naviance* at: connection.naviance.com/methuen.

Social Emotional Services and Supports: As mental health professionals, counseling staff are trained to provide therapeutic services individually or in a group, depending on the particular issues/needs at hand. The objective is to set goals to support students through an acute crisis or in managing long-term mental health concerns. Additionally, counseling staff work to deliver lessons related to social emotional health and well-being in accordance with the Collaborative for Academic and Social Emotional Learning (CASEL): Social Emotional Learning (SEL) competencies.

Parents are encouraged to call or e-mail to request an appointment with their student's counselor should they have a question or concern. Counseling staff enjoy reaching out and connecting with students and parents/guardians. Some featured group presentations and events include:

- Mental Health Parent & Student Advisory Council Meetings
- Grade 8 Course Request Assemblies
- Grade 8 Parent Night
- Grade 9 Orientation Meetings
- Junior College Planning Night
- Senior College Planning Night
- On-site Admissions Day
- Course Request Presentation
- MEFA Financial Aid Presentation
- Scholarship Info Session
- Colleges & Careers Fair
- Vocational/Technical School Fair

Positive Behavioral Interventions and Supports (PBIS)

Methuen High School is committed to cultivating a school environment that is safe, supportive, and conducive to teaching and learning. In order to support our efforts in this area, a targeted approach to teaching and promoting positive behaviors called Positive Behavioral Interventions and Supports (PBIS) has been adopted. The intended outcome is an improved ability to teach and support positive behavior for all students with the ultimate goal of increasing academic achievement. Rather than a prescribed program, PBIS provides a framework for schools to design, implement, and evaluate effective school-wide and individual student interventions.

Ranger P.R.I.D.E. (Patience, Respect, Integrity, Determination, and Excellence) represents Methuen High School's personalization of the PBIS program and serves as the basis for our approach to teaching and reinforcing positive behaviors.

THE ADVANCED PLACEMENT (AP) COURSES AND PROGRAM

Course #	Course Name	Grade			Credits	Length	
3425	AP Biology		10	11	12	1.0	Full year
3335	AP Chemistry			11	12	1.0	Full year
3465	AP Physics				12	1.0	Full year
3475	AP Environmental Science		10	11	12	1.0	Full year
2625	AP Calculus AB				12	1.0	Full year
2725	AP Calculus BC				12	1.0	Full year
2435	AP Statistics			11	12		Full year
1235	AP English Language and Composition			11		1.0	Full year
1245	AP English Language and Literature				12	1.0	Full year
4445	AP European History			11	12	1.0	Full year
4055	AP Psychology			11	12	1.0	Full year
4245	AP US History			11	12	1.0	Full year
4355	AP American Government			11	12	1.0	Full year

5145	AP Spanish				12	1.0	Full year
6465	AP Portfolio				12	1.0	Full year

With AP courses, students are exposed to the rigor of college-level studies while they still have the support of a high school environment. When students take AP courses, they demonstrate to college admission officers that they have sought out an educational experience that will prepare them for success in college and beyond. Resourceful and dedicated AP teachers work with their students to develop and apply the skills, abilities and content knowledge they will need later in college. Each AP course concludes with a college-level exam. AP exams are an essential part of the AP experience, enabling students to apply the new critical thinking skills they have learned in a comprehensive exam. Most two-and four-year colleges and universities worldwide recognize AP in the admission process and accept successful exam scores for credit, advanced placement or both. Performing well on an AP exam means more than just the successful completion of a course; research consistently shows that students who score a 3 or higher (on a scale of 1 to 5) typically earn higher GPAs in college and have higher graduation rates. Students may opt to take an AP exam even if they are not enrolled in the course and/or even if the course is not being offered at MHS. In both situations students need to contact the AP administrator so that an exam can be ordered for them.

Enrollment into AP courses is determined by a review of the following criteria: teacher recommendation based on a grade of B- or above in prerequisite classes and/or a demonstrated willingness to complete rigorous coursework, and PSAT AP potential scores. Once enrolled, all students will meet with the respective AP teacher before school ends in order to clarify course requirements and receive required summer coursework.

101AP AP Enhancement Block 0.25 Credit

Prerequisite: Must be enrolled in at least one AP course

This course is intended to support AP students in all AP classes as an additional class. AP teachers will be available to work with students, and students may work together on projects, assignments, or in study groups.

ENGLISH COURSE OFFERINGS

Course #	Course Name	Grade			Credits	Length
1001	Reading Enhancement	9	10		0.25	1 Quarter

1101	Academic Support Lab, English		10	11	12	0.25	1 Quarter
1013CS/ 1014CS	English 9	9				1.0	Full year
1133/ 1134	The Rebel in Literature		10			1.0	Full year
1263/ 1264	American Literature			11		1.0	Full year
1273	America Contemporary Issues			11		1.0	Full year
1245	AP English Language and Composition			11		1.0	Full year
1433/ 1434	British Literature				12	1.0	Full year
1463	Global Contemporary Issues				12	1.0	Full year
1235	AP English Literature and Composition				12	1.0	Full year
1353/ 1354	Journalism	9	10	11	12	0.5	Half year
1363/ 1364	Creative Writing	9	10	11	12	0.5	Half year
1381/1384	Literature of Mystery and Horror			11	12	0.5	Half year
1391/1394	Sports Literature			11	12	0.5	Half year
1601/1604	Literature and Film			11	12	0.5	Half year

1001 Reading Enhancement

0.25 Credit

Prerequisite: Teacher recommendation

Reading Enhancement is a web-based course in which students connect to *Reading Plus*, a Common Core aligned reading intervention that serves as an adjunct to the regular English class. This course prepares students to engage with complex texts by developing the three key dimensions of successful reading: capacity, efficiency, and motivation. The program is personalized for each student and adjusts to his or her reading level to increase reading and writing achievement. The activities include silent reading fluency, comprehension, vocabulary development, visual skill development, and a reading-writing connection. The high-interest texts develop stamina while increasing rate and enjoyment. Students will be scheduled by teacher recommendation and reading test data.

1101 Academic Support Lab, English 0.25 Credit

Prerequisite: Placement made by referral only

The Academic Support Lab is a program designed with a focus on improving students' achievement in English courses. Functioning as an intervention for students who are underperforming in this subject area, students work with tutors in the lab to successfully complete assignments from their English courses. Each quarter, identified students are referred to the lab. As improvement is charted, student assignment to the lab is monitored, but students will remain in the lab for a minimum of one term. Class sizes are small so that tutors serving the lab are able to provide individualized support for students.

1013C English 9 College Prep 1.0 Credit

Prerequisite: None

1013C English 9 HON 1.0 Credit

Prerequisite: None

English 9 integrates the study of all genres of literature with the development of effective writing, speaking, listening, and language skills. As students read poetry, short fiction, novels, drama, and nonfiction, they develop inferential and interpretive skills which are applied in their writing assignments. Students follow the multi-stage writing process to create narrative, descriptive, expository, and argumentative essays. Students will also engage in short and more sustained research projects. Vocabulary development and correct grammatical usage are addressed through reading and writing. Group and individual presentations help students enhance their speaking skills. Additional emphasis is placed upon improving study skills. Students are also offered strategies and practice to enhance their performance on the state-mandated Next-Gen MCAS exam in English Language Arts. Honors English 9 is an accelerated course designed to challenge independently motivated students who have demonstrated superior reading, writing, and language skills in Grade 8 English.

1133 Rebel in Literature College Prep 1.0 Credit

Prerequisite: Successful Completion of English 9

1134 **Rebel in Literature** HON 1.0 Credit

Prerequisite: Successful Completion of English 9

In The Rebel in Literature students read and critically analyze literary texts from authors writing in the midst of social, political, or personal upheavals. Readings from various countries and time periods span all genres, including fiction, mythology, poetry, drama, and nonfiction. Through increasingly independent work, students develop proficiency in applying the multi-stage writing

process to create numerous narrative, descriptive, expository, and argumentative papers that demonstrate accurate grammatical usage and varied vocabulary. Students will also engage in short and more sustained research projects while group and individual oral presentations enhance students' speaking skills. Students are offered strategies and practice to enhance their performance on the PSAT as well as the state-mandated Next-Gen MCAS exam in English Language Arts. Honors Rebel in Literature is an accelerated course designed to challenge independently motivated students who have demonstrated superior reading, writing, and language skills in Grade 9 English.

1273 American Contemporary Issues College Prep 1.0 Credit

***Prerequisite:* Successful Completion of English 10**

This junior English course focuses on literature that examines the issues of our complex, modern nation while emphasizing literacy skills. Encouraging the exploration of and response to contemporary, high interest texts from various genres and cultures, this course is dedicated to those readers who may have struggled to understand or enjoy more traditional period and literary classics in other English classes. Students develop reading and research strategies analyzing texts for meaning and finding intertextual and intratextual patterns as a means to unearth archetypal symbols, themes, and abstract concepts. The course emphasizes the need to understand unfamiliar perspectives and draw inferences from literature. In addition, students continue to develop their writing skills using a variety of prompts and exercises designed to challenge assumptions, encourage critical thinking, and promote effective and creative writing. Instruction in language skills, integrating reading, writing, speaking and listening, while placing emphasis on the progress of individual students, will be provided.

1263 American Literature College Prep 1.0 Credit

***Prerequisite:* Successful completion of English 10**

1264 American Literature HON 1.0 Credit

***Prerequisite:* Successful completion of English 10**

This course is designed to provide students with the literary and critical writing backgrounds necessary for success in college. To explore the historical development of American literature with regard for societal context, students read poetry, essays, plays, short stories, and novels from 16th- through 21st-century authors. Students focus on close reading of texts to explore the development of American literary trends and themes. Through frequent critical reading and writing assignments, including a full research project, students increase their independent writing proficiency, particularly in expository and argumentative papers. Group and individual oral presentations enhance their public speaking skills. Students are also given opportunities to practice for the SAT. Honors American Literature is an accelerated course designed to challenge

independently motivated students who have demonstrated superior reading, writing, and language skills in Grade 10 English.

1245	AP English Language and Composition	AP	1.0 Credit
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Prerequisite: *Successful completion of English 10*

This is a course which seeks to foster the development of reading and comparing texts that span multiple disciplines, genres and rhetorical contexts. Throughout the year students will work to become highly skilled readers of a variety of predominantly nonfiction texts and graphic/visual images. Their reading will be the basis for the writing of expository, narrative, analytical, and argumentative compositions. Students will also write informally to explore new information and ideas and to take risks in their writing. Students will conduct independent research on American writers and topics while learning to synthesize a variety of sources into their writing. This course prepares students for the Advanced Placement Exam in English Language and Composition, which all participants in the course are expected to take. Acceptable scores on this exam may enable students to receive college credit.

1463	Global Contemporary Issues	College Prep	1.0 Credit
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Prerequisite: *Successful completion of American Literature*

This senior English course continues the skill development of American Contemporary Issues to examine the issues of our complex, modern world while emphasizing literacy skills and career readiness. Prior completion of American Contemporary Issues is not required. In addition to strengthening students' reading, writing, listening and speaking, and language skills, this course will also focus on career readiness.

1433	British Literature	College Prep	1.0 Credit
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Prerequisite: *Successful completion of American Literature*

1434	British Literature	HON	1.0 Credit
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Prerequisite: *Successful completion of American Literature*

This course guides students through a study of the forms and periods of British literature and provides them with critical reading and writing skills necessary for success in college. The course traces the evolution of British literature from its origins in the Anglo-Saxon period through the 21st-century. Several major British novels and plays are included among the many shorter literature selections. Writing assignments, usually linked to the readings, are designed to foster analytical thinking, research, and writing proficiency. Students will also engage in a formal research process to compose a research paper. Through individual and group oral presentations students enhance their public speaking skills. Honors British Literature is an accelerated course

designed to challenge independently motivated students who have demonstrated superior reading, writing, and language skills in Grade 11 English.

1235	AP English Literature and Composition	AP	1.0 Credit
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Prerequisite: *Successful completion of American Literature*

Designed for students who are prepared to engage in college-level work, this course is intensive and challenging. Through critical reading, film, discussion and writing, students examine various themes in literature. Reading assignments include poetry, plays, novels, essays, and works of fiction. Frequent writing assignments ask students to engage in critical analysis of the literature. Through independent research into both primary and secondary sources, students develop research papers detailing specific topics related to the literature. Students complete extensive summer reading and writing projects. Much independent work in reading, research, and writing is required. Since the class is conducted in seminar-style, students are expected to participate regularly in literature discussions and to prepare and deliver proficient formal oral presentations. Acceptable scores on this test may enable students to receive college credit.

ENGLISH ELECTIVES

1353	Journalism	College Prep	1.0 Credit
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Prerequisite: *None*

1354	Journalism	HON	1.0 Credit
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Prerequisite: *None*

This semester-long course focuses on teaching students the fundamental types of journalistic writing, including the feature, the editorial, the interview, and the news article. Some projects explore writing for broadcast journalism. Group activities and individualized consultations are used extensively. This course is centered on class discussion rooted in workshopping the work of peers. Students' writing in this course addresses the standards in the Language and Composition Strands of the Massachusetts English Language Arts Curriculum Frameworks. It is the expectation that students enrolled in the honors section of this course will compose nearly twice as many unique articles per term than students enrolled in the college prep section. Additionally, expectations regarding the quality of feedback and insight offered during class discussion/workshop time as well as expectations regarding contributions to the *Blue and White* further differentiate the two levels. Students must designate their level at the time of enrollment.

1363	Creative Writing	College Prep	0.5 Credit
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Prerequisite: *None*

1364 Creative Writing HON 0.5 Credit

***Prerequisite:* None**

This course is designed for students who are writing fiction, drama, and/or poetry, and who wish to develop their craft. A standard workshop format allows students to read each other's work and offer valuable criticism in a format facilitated by the teacher. In addition to getting feedback from peers, each student also consults regularly with the instructor. It is the expectation that students enrolled in the honors section of this course will compose nearly twice as many unique works per term than students enrolled in the college prep section. Additionally, expectations regarding the quality of feedback and insight offered during class discussion/workshop time further differentiate the two levels. Students must designate their level at the time of enrollment.

1381 Literature of Mystery and Horror College Prep 0.5 Credit

***Prerequisite:* Juniors and Seniors only**

1384 Literature of Mystery and Horror HON 0.5 Credit

***Prerequisite:* Juniors and Seniors only**

Students in this semester-long course read, discuss, and write about short stories, novels, and films from the mystery and horror genre. Works of horror or suspense by contemporary writers such as Stephen King are used in addition to classics by writers such as Edgar Allan Poe. Detective fiction by both recent and 19th-century writers is an additional focus of the course. Students' reading and viewing in this course address the standards in the Literature and Media Strands of the Massachusetts English Language Arts Curriculum Frameworks. Expectations regarding text complexity as well as the quality and quantity of written work distinguish the two levels, as do expectations regarding the quality and frequency of meaningful contributions offered during class discussion.

1391 Sports Literature College Prep 0.5 Credit

***Prerequisite:* Juniors and Seniors only**

1394 Sports Literature HON 0.5 Credit

***Prerequisite:* Juniors and Seniors only**

Sports Literature is an English elective, offering juniors and seniors the opportunity to explore many different aspects of sports through different mediums. First, students discuss operational definitions for sports and why our culture is so fascinated with sports. Students read a number of current events sports articles, selections from sports short story anthologies and a sports-related novel. Students write reflective essays, argumentative essays, and perform research on specific athletes, sports, and sports topics. Sports Literature also takes a comprehensive look at issues

impacting sports today. With regard to their impact on sports, students discuss racism, gender issues, steroids, violence, and athletes as role models. Students also explore the positive elements of sports and how sports can transcend race, culture, age, gender, and geographic location while providing people with important lessons on personal perspective. Expectations regarding text complexity as well as the quality and quantity of written work distinguish the two levels, as do expectations regarding the quality and frequency of meaningful contributions offered during class discussion.

1601 Literature and Film **College Prep** **0.5 Credit**

Prerequisite: Juniors and Seniors only

1604 Literature and Film HON 0.5 Credit

Prerequisite: Juniors and Seniors only

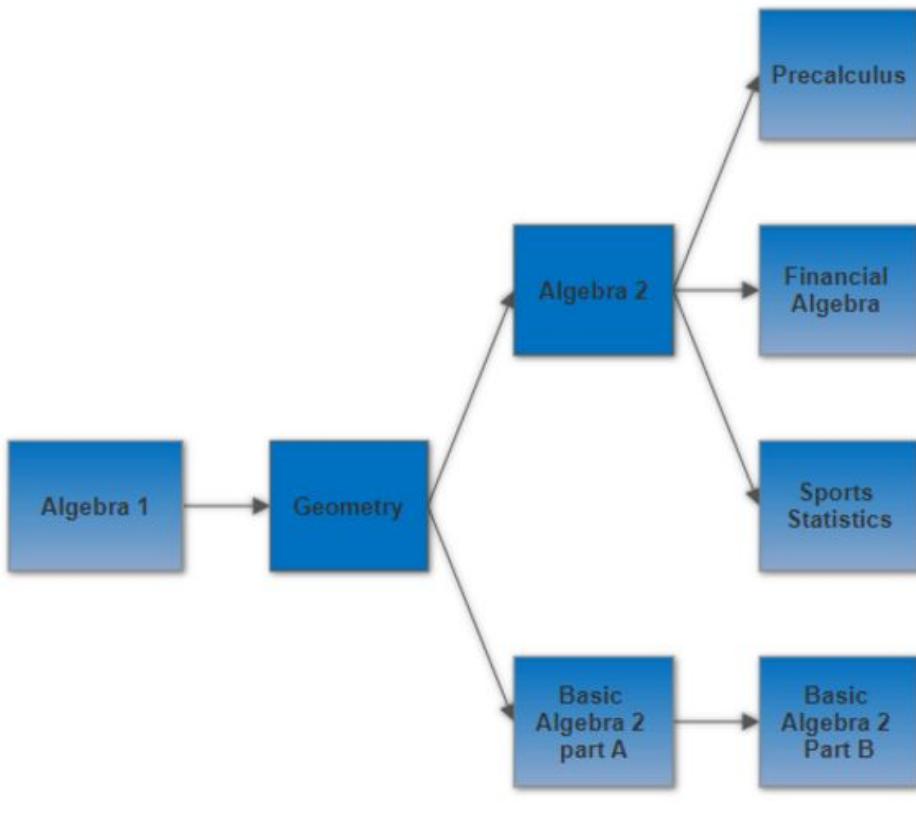
Students in this course will investigate the relationship between film and literature through the viewing and reading of works from various genres, topics, and styles. In addition to fostering an appreciation for cinematic and literary works, this course will engage students in social, artistic, historical, and political analysis. Reading, writing, and discussion will be central components of this course. Expectations regarding text complexity as well as the quality and quantity of written work distinguish the two levels, as do expectations regarding the quality and frequency of meaningful contributions offered during class discussion.

MATHEMATICS COURSE OFFERINGS

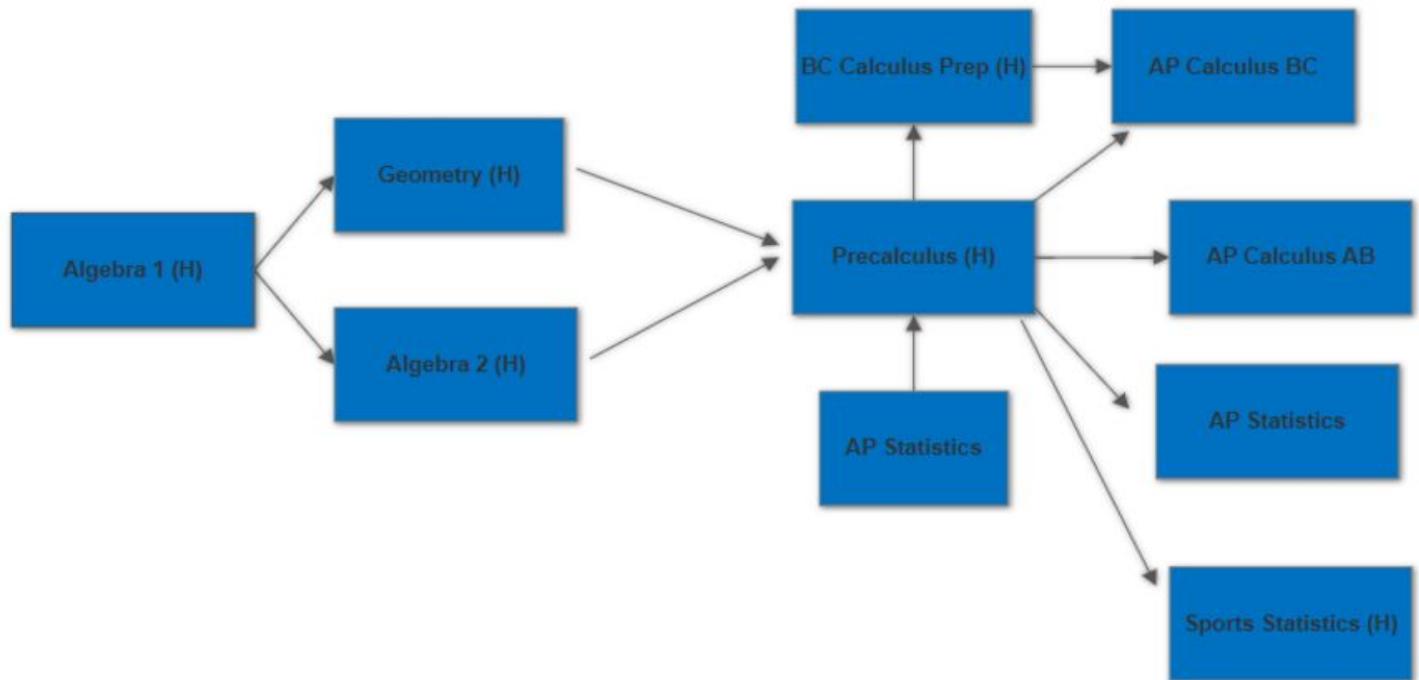
Course #	Course Name	Grade				Credits	Length
1101	Academic Support Lab			11	12	0.25	1 Quarter
2001	Supplemental Math A	9				0.5	Half year
2002	Supplemental Math B		10			0.5	Half year
2003	Supplemental Math C		10			0.5	Half year
2223C/ 2224C	Algebra 1	9				1.0	Full year
2313/2314	Geometry	9	10			1.0	Full year
2323	Basic Algebra 2 Part A			11		1.0	Full year

2433	Basic Algebra 2 Part B				12	1.0	Full year
2423/ 2424	Algebra 2		10	11		1.0	Full year
2813	Financial Algebra				12	1.0	Full year
2533/ 2534	Precalculus			11	12	1.0	Full year
2724	BC Calculus Prep			11		0.5	Half year
2613	Calculus				12	1.0	Full year
2625	AP Calculus AB				12	1.0	Full year
2725	AP Calculus BC				12	1.0	Full year
2443/ 2444	Sports Statistics			11	12	1.0	Full year
2435	AP Statistics			11	12	1.0	Full year

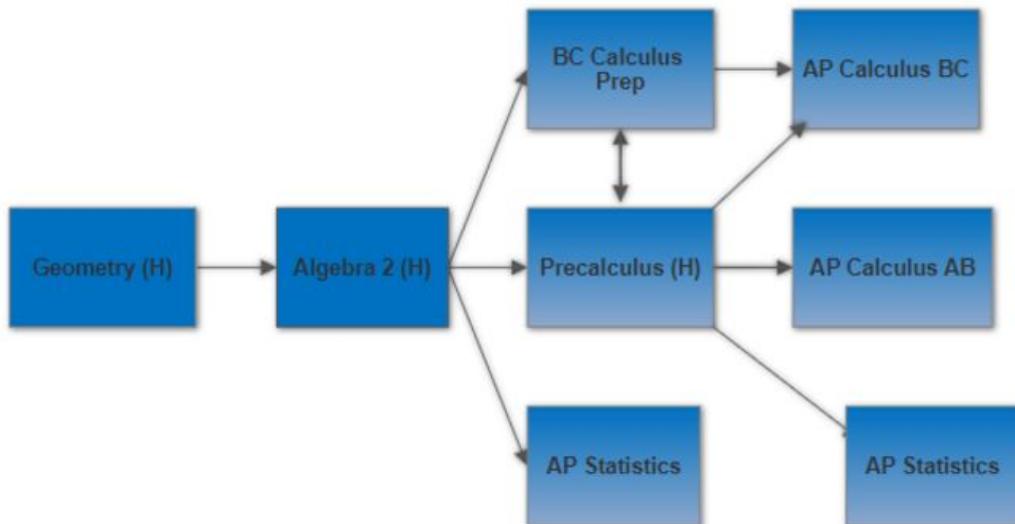
Sample CP Course Sequence



Sample Honors Course Sequence 1



Sample Honors Course Sequence 2



1101 Academic Support Lab, Math 0.25 Credit

Prerequisite: Placement by referral only

The Academic Support Lab is a program designed with a focus on improving MCAS scores and the graduation rate, both targeted areas of improvement. This lab functions as an intervention for students who are underperforming in English and/or mathematics. The identified students will be assigned to the lab in lieu of an elective. As improvement is documented, movement out of this class will be fluid in nature. Students will remain in this lab for a minimum of one term, approximately forty-five school days. Each term, class size will remain under ten each block to ensure personal, proactive support. Our belief is that this intervention will result in our ultimate goal of being a level one school.

2001 **Supplemental Math A** **0.25 Credit**

Prerequisite: Placement by referral only

The Supplemental Math A course is the first class in a program designed with a focus on helping students meet or exceed MCAS standards. This course supports Freshmen students who were underperforming on the 7th and 8th grade MCAS assessments. The course reviews important middle school standards that are essential to student success in core mathematics courses throughout high school, as well as standards that are still tested on the tenth grade MCAS assessment. Students will also explore test taking strategies to apply to multiple question formats.

2002 **Supplemental Math B** **0.25 Credit**

Prerequisite: Placement by referral only

The Supplemental Math B course is the second class in a program designed with a focus on helping students meet or exceed MCAS standards. This course supports Sophomore students who were underperforming on the 7th and 8th grade MCAS assessments. The course reviews high school standards that are frequently assessed on the tenth grade MCAS, as well as exploring test taking strategies to apply to multiple question formats.

2003 Supplemental Math C 0.25 Credit

Prerequisite: Placement by referral only

The Supplemental Math C course is the third class in a program designed with a focus on helping students meet or exceed MCAS standards. This course supports Sophomore students who were underperforming, or close to excelling, on the 7th and 8th grade MCAS with additional test practice.

2223C Algebra I College Prep 1.0 Credit

Prerequisite: None

224C Algebra I HON 1.0 Credit

Prerequisite: None

Course topics include real numbers, polynomial operations, linear equations and inequalities, linear functions and graphing, probability and statistics, algebraic applications in the workplace and other content material included in the Massachusetts Mathematics Frameworks and the National Council of Teachers of Mathematics Standards. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing. All levels include a range of teaching strategies incorporating manipulatives, group activities, and projects designed to actively engage students in the learning process.

2313 Geometry College Prep 1.0 Credit

Prerequisite: Successful completion of Advanced Math in Grade 8 or Successful completion of Algebra I

2314 **Geometry** **HON** **1.0 Credit**

Prerequisite: Successful completion of Advanced Math in Grade 8 or Successful completion of Algebra I

Course topics include inductive and deductive reasoning, logic, angles, lines and planes, triangles, circles, areas, volumes, congruence and algebraic applications. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing where applicable. The course is aligned with the Massachusetts Mathematics Frameworks and the National Council of Teachers of Mathematics Standards. College Prep Geometry concentrates more on applications and understanding. A variety of manipulative and visual activities and projects are stressed.

2323 Basic Algebra II (Part A) College Prep 1.0 Credit

Prerequisite: Successful completion of Algebra I and Geometry

Algebra II Part A is the first course in a two year Algebra II sequence. This course will focus on strengthening students' Algebra I skills that are necessary in the success of advanced algebra concepts. Students will learn to recognize and express mathematical concepts graphically, numerically, symbolically, and in writing. Students will also begin the Algebra II curriculum with a strong focus on Quadratic and Polynomial functions.

2433 Basic Algebra II (Part B) College Prep 1.0 Credit

***Prerequisite:* Successful completion of Basic Algebra II (Part A)**

Algebra II Part B is the second course in a two year Algebra 2 sequence. This course will continue with the curriculum from the Part A. Topics covered consist of polynomial, radical, exponential, logarithmic, and rational functions along with an introduction to trigonometry. Throughout the units of study, students will continue to focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing.

2423 Algebra II College Prep 1.0 Credit

***Prerequisite:* Successful completion of Algebra I and Geometry**

2424 Algebra II HON 1.0 Credit

***Prerequisite:* Successful completion of Algebra I and Geometry**

Topics are sequential to those covered in Algebra I. They include higher order functions, and the resulting graph, basic trigonometry, logarithmic functions, and probability and statistics. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing. The curriculum is aligned with the Massachusetts Mathematics Frameworks and the National Council of teachers of Mathematics Standards.

2813 Financial Algebra College Prep 1.0 Credit

***Prerequisite:* Successful completion of Algebra I and II and Geometry**

The Financial Algebra class will explore areas of mathematics that help students understand, predict, and control their financial world through real world financial issues, and practical business problems. Students will strengthen important Algebraic concepts as well as develop financial strategies that can help them reach their financial goals, personally or in the business world. A few of the topics covered throughout the course include banking, credit cards, buying a home, maintaining a budget, insurance, and income tax.

2533 Pre-Calculus College Prep 1.0 Credit

***Prerequisite:* Successful completion of Algebra I & II and Geometry**

2534 Pre-Calculus HON 1.0 Credit

***Prerequisite:* Successful completion of Algebra I & II and Geometry**

Course topics include analytic geometry, vectors, higher degree equations, logarithms and exponential functions, advanced graphing, trigonometry, and polar coordinates. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts

graphically, numerically, symbolically, and in writing. It is designed to prepare students to take the SAT Subjects Mathematics tests. College Prep Pre-calculus includes a variety of teaching strategies and hands on, group activities, and manipulatives for enhanced understanding. Honors Pre-calculus is a comprehensive study of all topics listed; it is preparatory to Calculus or Level 5 Advanced Placement Calculus AB/BC. Both levels 3 and 4 make use of graphing technology.

2613 Calculus College Prep 1.0 Credit

Prerequisite: *Successful completion of Algebra I, Geometry, Algebra II, and Pre-Calculus*

This course will cover basic calculus skills in limits, differentiation, and integration along with applying these skills in a variety on contexts. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing. The topics covered are similar to those of the AP Calculus AB course with a more manageable pace and rigor. This course is not designed to prepare students for the AP Calculus exam but to provide a foundation for any college calculus coursework.

2625 AP Calculus AB AP 1.0 Credit

Prerequisite: *Successful completion of Algebra I, Geometry, Algebra II, and Pre-Calculus*

This course is the equivalent of a College Calculus AB course. It is intended only for those students who excel in mathematics at the highest level. Pacing and coverage are intensive and the curriculum is aligned with the recommended Advanced Placement Calculus (AB) curriculum from The College Board. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing. Extensive summer work will be included and expected. In the spring the class will be expected to take the Advanced Placement Examination. Acceptable scores on the test may enable students to receive college credit.

2724 BC Calculus Prep HON 1.0 Credit

Prerequisite: *Successful completion of Algebra I, Geometry, Algebra II, and concurrent enrollment in Pre-Calculus Honors*

This course is designed to prepare students for the pace and rigor of the BC Calculus course. There will be a focus on extended Pre-calculus topics including sequences and series, polar and parametric functions, and vectors. Students will also begin the study of calculus with limits, and differentiation rules. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing.

2725

AP Calculus BC

AP

1.0 Credit

Prerequisite: *Successful completion of Algebra I, Geometry, Algebra II, and Pre-Calculus*

This course is the equivalent to two or three college calculus courses. It is intended for only those students who excel in mathematics at the highest level. Pacing and coverage are intensive and the curriculum is aligned with the recommended AP Calculus BC curriculum from the College Board. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing. Extensive summer work will be included and expected. In the spring students will be expected to take the AP exam. Acceptable scores may earn college credit. Students interested in taking BC Calculus should enroll in BC Calculus Prep while concurrently enrolled in Precalculus, or complete individual coursework in order to prepare for this course.

2443

Sports Statistics

College Prep

1.0 Credit

Prerequisite: *Successful completion of Algebra I, Geometry, and Algebra II*

2444

Sports Statistics

HON

1.0 Credit

Prerequisite: *Successful completion of Algebra I, Geometry, and Algebra II*

This course builds the foundation for statistical analysis through the four-steps of the statistical process: ask questions, collect data, analyze data, and make conclusions. Students will apply these ideas through real world problem situations centered around sports. The class will also pair with MHS sports teams to collect and analyze data and report their findings to the team. This course is geared towards any student interested in statistical analysis but not at the Advanced Placement level.

2435

AP Statistics

AP

1.0 Credit

Prerequisite: *Successful completion of Algebra I, Geometry, and Algebra II*

Advanced Placement Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results from another poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography, and business. The content aligns to the scope and sequence specified by the College Board and to widely used textbooks. Extensive summer work will be included and expected. In the spring students will be expected to take the AP exam. Acceptable scores may earn college credit.

SCIENCE COURSE OFFERINGS

Course #	Course Name	Grade			Credits	Length	
3223	Biology	9			1.0	Full year	
3425	AP Biology		10	11	1.0	Full year	
3333	Chemistry		10		1.0	Full year	
3335	AP Chemistry			11	1.0	Full year	
3443	Physics			11	1.0	Full year	
3465	AP Physics				1.0	Full year	
3523	Biotechnology I		10	11	1.0	Full year	
3624	Biotechnology II			11	1.0	Full year	
3634	Biotechnology Outplace				1.0	Full year	
3463	Environmental Science		10	11	1.0	Full year	
3475	AP Environmental Science		10	11	1.0	Full year	
3453	Anatomy and Physiology		10	11	1.0	Full year	
3613	ETF		10	11	1.0	Full year	
3814	Robotics		10	11	1.0	Full year	
3713	Forensic		10	11	0.5	Semester	
SM 104	Sports Medicine				12	0.5	Semester

3223C Biology College Prep 1.0 Credit

Prerequisite: None

3224C **Biology** HON 1.0 Credit

Prerequisite: None

Students will study life by examining systems from the molecular level through cell biology and genetics through lessons and laboratory investigations that reinforce the key concepts. Students will also study life by examining systems at the tissue and organ level, invertebrate anatomy and physiology, and at the level of organisms and populations through ecology using lessons and laboratory investigations that reinforce key concepts. Students will explore the following concepts: Chemistry of Life, Cell Biology, Genetics, Ecology, Human Anatomy and Physiology and Evolution and Biodiversity.

3524 Biotechnology I HON 1.0 Credit

Prerequisite: Successful completion of Biology

Introduction to Biotechnology is an elective course within the science curriculum. Biotechnology is most widely used in agriculture, health/medical and environmental fields to manipulate biological organisms to create products that benefit humans. This course is designed to introduce the laboratory techniques and theoretical applications of biotechnology. This college preparatory course includes an introduction to biotech industry standards and advanced discussions of DNA manipulation, transformation and identification.

3624 Biotechnology II HON 1.0 Credit

Prerequisite: Successful completion of Biotechnology I

Biotechnology II is a hands-on course designed to improve and refine basic techniques and to learn new state-of-the-art methods, currently used in the biotechnology industry. This course focuses on the theoretical concepts and emphasizes the "hands-on" experience with advanced techniques including, but not limited to, polymerase chain reaction, ELISA, Protein purification and chromatography, and Cell Culture. The biotechnology II curriculum is designed to prepare students for both post secondary education in biotechnology as well as success in the workplace.

3634 Biotechnology Outplacement HON 1.0 Credit

Prerequisite: Successful completion of Biotechnology I and II

Outplacement courses in the field will be offered to Methuen High School seniors who have completed the necessary coursework in their programs of study.

3425

AP Biology

AP

1.0 Credit

Prerequisite: *Successful completion of Biology*

The Advanced Placement Biology curriculum is aligned to the College Board recommended syllabus and is designed to be the equivalent of a college introductory biology course. The course centers around four main concepts: The process of evolution drives the diversity and unity of life. Biological systems utilize energy and molecular building blocks to grow, reproduce, and maintain homeostasis. Living systems retrieve, transmit, and respond to information essential to life processes. Biological systems interact, and these interactions possess complex properties. Upon completion of the course, students will be expected to take the Advanced Placement examination. Acceptable scores on this test may enable students to receive valuable college credits.

3713

Forensic Science

College Prep

1.0 Credit

Prerequisite: *Successful completion of Algebra I and Biology*

This half year, lab-based science elective is designed to introduce students to the principles governing the application of crime scene investigation through lab based scientific processes used to solve crimes. Topics include evidence collection and documentation, microscopy (analysis of hair, fiber, and textiles), handwriting analysis, fingerprinting and collection of fingerprints, DNA evidence collection and analysis, and blood spatter analysis.

3333

Chemistry

College Prep

1.0 Credit

Prerequisite: *Successful completion of Algebra I or above*

3334

Chemistry

HON

1.0 Credit

Prerequisite: *Successful completion of Algebra I or above*

Chemistry is a suggested component of the science curriculum normally taken during the sophomore year. The chemistry curriculum is designed to utilize laboratory experiences in developing and augmenting the principles of chemistry. Mathematical concepts and classroom notes/readings are integrated with laboratory investigations to develop an understanding of chemical principles such as atomic structure, periodicity, molecular reactions, solution process, and acid/base reactions.

3335

AP Chemistry

AP

1.0 Credit

Prerequisite: *Concurrent enrollment in Algebra II or above and successful completion of Chemistry*

The Advanced Placement Chemistry curriculum follows the College Entrance Boards recommended syllabus and is designed to be the equivalent of a college introductory chemistry

course. Advanced Placement Chemistry aims to provide students with the conceptual framework, factual knowledge, and analytical skills expected of a first year chemistry student in college. Topics covered include the structure of matter, kinetic theory of gases, chemical equilibrium, chemical kinetics, and basic concepts of thermodynamics. In the spring, the class will be expected to take the Advanced Placement examination. Acceptable scores on this test may enable students to receive college credit.

3443 Physics **College Prep** **1.0 Credit**

Prerequisite: Successful completion of Algebra II or above

3444 Physics HON 1.0 Credit

Prerequisite: Successful completion of Algebra II or above

This course emphasizes an in-depth understanding of two core areas of physics: mechanics and electricity through problem solving, data analysis, and laboratory experiences/demonstrations. The physics curriculum includes the following topics: straight line, projectile, circular, and rotational motion or dynamics; Newton's laws of motion, vector analysis; momentum; work, energy, and machines; electrostatics; and electric circuits.

3465 AP Physics 1 AP 1.0 Credit

Prerequisite: Concurrent enrollment in Pre-Calculus or above and successful completion of Physics

The Advanced Placement Physics I curriculum follows The College Board's recommended syllabus and is designed to be the equivalent of a college introductory physics course. The Physics I curriculum focuses on an in-depth study of the core area of mechanics, waves, simple circuits, and electrostatics. It is the expectation that students will take the Advanced Placement Physics I examination in May. Acceptable scores on the test may afford students the opportunity to receive college credit.

3453 Anatomy & Physiology College Prep 1.0 Credit

Prerequisite: Successful completion of Biology

3454 Anatomy & Physiology HON 1.0 Credit

Prerequisite: Successful completion of Biology

Anatomy and Physiology is an elective course within the science curriculum. Anatomy and Physiology examines the human body including its overall organization, basic chemistry and biochemistry, histology, as well as the following systems: integumentary and membrane, skeletal, muscular, nervous, sensory, endocrine, blood and circulatory, immune, respiratory, digestive, excretory and reproductive. This course incorporates in its curriculum several hands-on or lab

activities. These activities include the dissection of preserved specimens. In Anatomy & Physiology the dissection of the cat and the fetal pig are integral parts of the curriculum included to exemplify various aspects of human anatomy. Alternative lab activities are available upon request.

3463 Environmental Science **College Prep** **1.0 Credit**

Prerequisite: Successful completion of Biology

Environmental Science is an elective course within the science curriculum. This course is designed to provide students with an understanding of how humans affect and are affected by their environment. Students are exposed through readings and explorations to the environmental questions that confront our planet every day. Students gain practice in applying science knowledge to improve their decision and problem solving skills through field study and laboratory work.

3475 AP Environmental Science AP 1.0 Credit

AP Environmental Science AP

Prerequisite: Successful completion of Biology

Advanced Placement Environmental Science curriculum follows the scope and sequence specified by The College Board and is designed to be the equivalent of a college level course. AP Environmental Science aims to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and preventing them. Experiences both in the laboratory and in the field will provide students with important opportunities to test concepts and principles, explore specific problems in more depth, and gain experience conducting field studies. In the spring the class will be expected to take the Advanced Placement examination. Acceptable scores on this test may enable students to receive college credit.

3613 Engineering for the Future College Prep 1.0 Credit

Prerequisite: Successful completion of Algebra I

College Prep 1.0 Credit

3614 Engineering for the Future

3614 Engineering for the Future HON

1.0 Credit

Prerequisite: Successful completion of Algebra I

This course introduces students to the world of technology and engineering, as a first step in becoming technologically literate citizens. Additionally, the course will help high school students answer the question: “Why should I study math, science and engineering if I don’t plan on a technical career?” Through the course’s real-world practical connections, students will have an opportunity to see how science, mathematics, and engineering are part of their everyday world,

and why it is important for every citizen to be technologically and scientifically literate. Additionally, it prepares students to take the MCAS Technology/Engineering exam as an alternative to the Biology or Chemistry exams.

3814 **Robotics** **HON** **1.0 Credit**

Prerequisite: Successful completion of Algebra I

Throughout the course, students will learn about engineering and engineering problem solving. Students will be given introductions to VEX EDR robots and Autodesk Inventor. Subsequently, students will design and build a mobile robot to play a sport like game. During this process, students will learn key STEM principles and robotics concepts such as object manipulation, motors, mechanical power transmission, and systems design. Culminating activities will involve a variety of robotics competitions.

SM104 Introduction to Sports Medicine HON 1.0 Credit

Prerequisite: Successful completion of Biology and Anatomy and Physiology

Throughout the course, students will learn about both sports medicine and athletic training and will explore the following: Careers in sports medicine, injuries to specific human anatomy, prevention, treatment and management of injuries, rehabilitation, and both on the field and off the field concerns for athletes. The curriculum centers on teaching the five domains of athletic training: Injury and illness prevention and wellness promotion, examination, assessment and diagnosis, immediate and emergency care, therapeutic intervention, and healthcare administration and professional responsibility. Throughout the course, students will learn to understand the importance of the sports medicine team in relation to athletes, injuries, and competition.

SOCIAL STUDIES COURSE OFFERINGS

Course #	Course Name	Grade				Credits	Length
4113C/4114C	Modern World History	9				0.5	Half year
4353/4354	American Government	9				0.5	Half year
4133/4134	United States History I		10			1.0	Full year
4243/4244	United States History II			11		1.0	Full year
4001	History of Methuen	9	10	11	12	0.5	Half year
4103/4104	Cold War			11	12	0.5	Half year
4364	Legal Studies			11	12	0.5	Half year

4053/4054	Introduction to Psychology			11	12	0.5	Half year
4055	AP Psychology			11	12	1.0	Full year
4355	AP American Government		10	11	12	1.0	Full year
4445	AP European History		10	11	12	1.0	Full year
4245	AP United States History			11	12	1.0	Full year

4113C Modern World History College Prep 1.0 Credit

Prerequisite: None

4114C Modern World History HON 1.0 Credit

Prerequisite: None

This course will begin with the emergence of Nationalism in Europe, European Imperialism and will proceed through the Chinese revolution, Japanese modernization, the world wars, the political spectrum, the Cold war, Nationalism in the 20th century and modern history to present.

4353 American Government College Prep 1.0 Credit

Prerequisite: None

4354 American Government HON 1.0 Credit

Prerequisite: None

In this course students will study the basic structure of the United States government and The Constitution. Other areas covered will be national defense, international relations, political parties, federal elections, and federal vs. state conflicts.

4133 United States History I College Prep 1.0 Credit

Prerequisite: Successful completion of Modern World History

4134 United States History I HON 1.0 Credit

Prerequisite: Successful completion of Modern World History

The United States History course is designed to provide students with a comprehensive introduction into the history of the United States from the emergence of Nationalism in Colonial America and proceed to the American Revolution, Origins of the American Nation, Westward Expansion, Society in the 1800's and the Civil War followed by Reconstruction. The course will

require the reading of primary source documents, writing research papers, preparing group projects and oral presentations and completing a written final exam. Students will be expected to be active learners as they form opinions, evaluate decisions, determine causes and effects, and view issues of American History from multiple perspectives.

4243 United States History II College Prep 1.0 Credit

Prerequisite: Successful completion of United States History I

4244 United States History II HON 1.0 Credit

Prerequisite: Successful completion of United States History I

The United States History course is designed to provide students with a comprehensive introduction to the history of the United States from 1867 to the present, including the study of current events. The course will require the reading of primary source documents, writing research papers, preparing group projects and oral presentations and completing a written final exam. Students will be expected to be active learners as they form opinions, evaluate decisions, determine causes and effects, and view issues of American History from multiple perspectives.

SOCIAL STUDIES ELECTIVES

4001 History of Methuen 0.5 Credit

Prerequisite: None

This course on Methuen history covers the development of the city from prehistoric times to the present. Students learn about the significant people and events that have shaped our city and influenced our nation. Analysis of primary source documents will aid learners in discovering the identity of this unique community.,

4103 Cold War College Prep 0.5 Credit

Prerequisite: Juniors and Seniors only

4104 Cold War HON 0.5 Credit

Prerequisite: Juniors and Seniors only

Students in the Cold War course will be engaged in historical inquiry. Lessons will focus on central or essential questions for the students to solve through examining historical evidence. While trying to solve these questions, students will acquire the relevant background knowledge of the Cold War and the ability to analyze and synthesize information from a variety of sources and perspectives in order to create their claims about the influence of the Cold War on today. Students will consider the major political personalities and events of the Cold War; why the United States and the Soviet Union were considered “superpowers”; the impact of the Cold War

on technology, sports, entertainment, and social movements; as well as how the decisions made during the Cold War affect the geopolitical world today.

4364 Legal Studies 0.5 Credit

Prerequisite: Juniors and Seniors only

This course will provide students with a comprehensive introduction to the United States legal system. The course will include case studies, mock trials, role-plays, small group exercises, visual analysis activities, and guest speakers in the field of law. Units of study will include criminal law, the criminal justice process, civil law, and constitutional law. Topics in the above units will cover crimes vs. persons and property, legal defense, trial proceedings, lawsuits, individual rights, and divorce. Students will be required to complete readings from textbooks and original sources. Students will engage in essay writing, answer open-ended questions, research topics, and complete a project relevant to the course.

4053 Introduction to Psychology College Prep 1.0 Credit

Seniors and Seniors only

4054 Introduction to Psychology

Prerequisites: Juniors and Seniors only.

This course is designed for students w

interesting topics in psychology. While learning social scientific methodology and important analytical skills, students will study topics such as The Brain, Sleep and Dreaming, Drug Use and Addiction, Perception and the Media, and Psychological Disorders and Treatment. Students will be required to complete several projects requiring them to research and investigate issues related to psychology and themselves. The class will have regular readings, videos, and discussions.

4055 AP Psychology AP 1.0 Credit

AP Psychology AP

1.0 Credit

Prerequisite: Juniors and Seniors only

This course offers students the opportunity while in high school to earn college credit or advanced placement in an introductory college course in Psychology. This demanding course will examine the fundamental theories and principles of Psychology in preparation for the AP exam in May. It is expected that all students will take the AP exam upon completion of the course. The topics students will study include, but are not limited to, Social, Developmental and Abnormal Psychology, Behaviorism and Personality.

4355 AP American Government AP 1.0 Credit

Prerequisite: Sophomores, Juniors and Seniors only

This course provides an analytical perspective on government and politics in the United States. Also, it includes both the study of general concepts used to interpret U.S. government/politics and the analysis of specific case studies. Familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics will be accomplished.

4445 AP European History AP 1.0 Credit

Prerequisite: Sophomores, Juniors and Seniors only

This study of European History since 1450 introduces students to cultural, economic, political and social developments that played a fundamental role in European societies. The course will begin with a review of the Late Middle Ages, proceed to the Renaissance, Reformation, French Revolution, Industrial Revolution, Imperialism, the world wars and the Cold War. Students will examine historical material and assess the reliability and importance of the materials with which they are working. Students will be expected to complete a research project relevant to the course and take the Advanced Placement exam in European History.

4245 AP United States History AP 1.0 Credit

Prerequisite: Juniors and Seniors only: Successful completion of United States History I

This course is a rigorous, demanding course to prepare students for the AP exam. Extensive reading and writing is required. The emphasis is on analytical thinking and critical approaches to content. This course mirrors a first year college course in United States History and is for serious students of history. Students enrolling in the course are required to attend a brief orientation session in the spring. Students will be required to successfully complete summer reading assignments given at the orientation meeting. Upon completion of the course, students will be expected to take the AP exam in May. Qualifying scores may earn college credit.

FOREIGN LANGUAGE COURSE OFFERINGS

Course #	Course Name	Grade				Credits	Length
5203/5014	French I	9	10	11	12	1.0	Full year
5213/5224	French II		10	11	12	1.0	Full year
5314	French III Honors			11	12	1.0	Full year
5324	French IV Honors				12	1.0	Full year

5103/5104	Spanish I	9	10	11	12	1.0	Full year
5113/5114	Spanish II	9	10	11	12	1.0	Full year
5123/5124	Spanish III		10	11	12	1.0	Full year
5133/5134	Spanish IV			11	12	1.0	Full year
5204	Spanish for Native Speakers I	9	10	11	12	1.0	Full year
5214	Spanish for Native Speakers II	9	10	11	12	1.0	Full year
5234	Spanish for Native Speakers III		10	11	12	1.0	Full year
5145	AP Spanish Language			11	12	1.0	Full year
5503/5594	Italian I	9	10	11	12	1.0	Full year
5513/5514	Italian II		10	11	12	1.0	Full year
5524/	Italian III Honors			11	12	1.0	Full year
5534	Italian IV Honors (depending on enrollments)				12	1.0	Full year

Prerequisite: None

5014 French I HON 1.0 Credit

Prerequisite: None

In this course, students are introduced to the basics of the French language. Using a proficiency approach, the emphasis is on all four skills of the language: listening, speaking, reading and writing. Classes are conducted primarily in the target language from the beginning level. Authentic audio-visual resources are used to enhance communicative skills and introduce students to the cultures of the French speaking world.

Prerequisite: Successful completion of French I

5224 French II HON 1.0 Credit

Prerequisite: Successful completion of French I

In this course, students continue to build proficiency in listening, speaking, reading and writing the language. Audio-visual resources and technology are integrated for communicative purposes. A thematic approach focusing on everyday familiar topics is used to introduce new vocabulary and structure in meaningful context.

5314 French III HON 1.0 Credit

Prerequisite: Successful completion of French II

In this course, students continue to expand their functional use of the language. At this stage they progress into the intermediate proficiency range and are able to provide more detail and begin to elaborate on topics relating to everyday activities. Technology, authentic and audio-visual resources are used interactively to promote communication and explore cultures of the francophone world.

5324 French IV HON 1.0 Credit

Prerequisite: Successful completion of French III

French IV continues to improve student competency in speaking, understanding, reading and writing the language as they acquire a wider range of vocabulary on a variety of topics relating to real life activities and the environment. Students will exchange preferences, feelings, opinions, viewpoints and give advice in the language. Performance-based projects integrating technology, oral presentations, interpersonal interviews, interpretive tasks and compositions are all used to assess student performance.

5103 Spanish I College Prep 1.0 Credit

Prerequisite: None

5104 Spanish I HON 1.0 Credit

Prerequisite: None

In this course, students are introduced to the basics of the Spanish language. Using a proficiency approach, the emphasis is on all four skills of the language: listening, speaking, reading and writing. Classes are conducted primarily in the target language from the beginning level. Authentic audio-visual resources are used to enhance communicative skills and introduce students to the cultures of the Spanish speaking world.

5113 Spanish II College Prep 1.0 Credit

Prerequisite: Successful completion of Spanish I

5114 Spanish II HON 1.0 Credit

Prerequisite: Successful Completion of Spanish I

In this course, students continue to build proficiency in listening, speaking, reading and writing the language. Audio-visual resources and technology are integrated for communicative purposes. A thematic approach focusing on everyday familiar topics is used to introduce new vocabulary and structure in meaningful context.

5123 Spanish III College Prep 1.0 Credit

Prerequisite: Successful completion of Spanish II

5124 Spanish III HON 1.0 Credit

Prerequisite: Successful completion of Spanish II

In this course, students continue to expand their functional use of the language. At this stage they progress into the intermediate proficiency range and are able to provide more detail and begin to elaborate on topics relating to everyday activities. Technology, authentic and audio-visual resources are used interactively to promote communication and explore cultures of the Spanish speaking world.

5133 Spanish IV College Prep 1.0 Credit

Prerequisite: Successful completion of Spanish III

5134 Spanish IV HON 1.0 Credit

Prerequisite: Successful completion of Spanish III

Spanish 4 continues to improve student competency in speaking, understanding, reading and writing the language as they acquire a wider range of vocabulary on a variety of topics relating to real life activities and the environment. Students will exchange preferences, feelings, opinions, viewpoints and give advice in the language. Performance-based projects integrating technology, oral presentations, interpersonal interviews, interpretive tasks and compositions are all used to assess students' proficiency in the language.

5204 Spanish I for Native Speakers HON 1.0 Credit

Prerequisite: Spanish placement exam

This course is designed for native speakers of Spanish who need to build writing and reading skills, as well as improve speaking ability. Students will strengthen grammar and vocabulary and study the culture of Spanish-speaking countries. This is an honors level course and is geared toward students who already use the language on a regular basis.

5214 Spanish II for Native Speakers HON 1.0 Credit

***Prerequisite:* Successful completion of Spanish I or Spanish placement exam**

This course is designed for students who are fluent in Spanish but need to develop reading and writing skills as well as enhance their speaking ability. Students will strengthen grammar, vocabulary, and cultural knowledge as they explore literature, history, art and current events. Course work is geared towards someone who already uses the target language on a regular basis. There is a heavy emphasis on reading, listening to lengthy excerpts, and writing compositions.

5234 Spanish III for Native Speakers HON 1.0 Credit

***Prerequisite:* Successful completion of Spanish II for Native Speakers or Spanish placement exam**

This course is designed to provide advanced study of the language, literature, and culture of the Spanish-speaking world. Emphasis is on preparation for the AP Spanish Language course and /or university level work.

5145 AP Spanish Language AP 1.0 Credit

***Prerequisite:* Successful completion of Spanish IV or Spanish for Native Speakers III, and teacher recommendation**

The equivalent of a college-level language course, this course prepares students for the AP Exam and for further study of Spanish language, culture, and/or literature. Students hone their speaking, listening, reading, and writing skills through extensive practice in each discipline. Cultural topics are also covered in depth. The content aligns to the scope and sequence specified by The College Board. In the spring, students will be expected to take the AP exam. Qualifying scores may earn college credit.

5503 Italian I College Prep 1.0 Credit

***Prerequisite:* None**

5594 Italian I HON 1.0 Credit

***Prerequisite:* None**

In this course, students are introduced to the basics of the Italian language. Using a proficiency approach, the emphasis is on all four skills of the language: listening, speaking, reading and writing. Classes are conducted primarily in the target language from the beginning level. Authentic audio-visual resources are used to enhance communicative skills and introduce students to Italian culture.

5513 Italian II College Prep 1.0 Credit

Prerequisite: Successful completion of Italian I

5514 Italian II HON 1.0 Credit

Prerequisite: Successful completion of Italian I

In this course, students continue to build proficiency in listening, speaking, reading and writing the language. Audio-visual resources and technology are integrated for communicative purposes. A thematic approach focusing on everyday familiar topics is used to introduce new vocabulary and structure in meaningful context.

5524 Italian III HON 1.0 Credit

Prerequisite: Successful completion of Italian II

In this course, students continue to expand their functional use of the language. At this stage they progress into the intermediate proficiency range and are able to provide more detail and begin to elaborate on topics relating to everyday activities. Technology, authentic and audio-visual resources are used interactively to promote communication and explore the Italian culture.

5534 Italian IV HON 1.0 Credit

Prerequisite: Successful completion of Italian III

Italian IV continues to improve student competency in speaking, understanding, reading and writing the language as they acquire a wider range of vocabulary on a variety of topics relating to real life activities and the environment. Students will exchange preferences, feelings, opinions, viewpoints and give advice in the language. Performance-based projects integrating technology, oral presentations, interpersonal interviews, interpretive tasks and compositions are all used to assess students' proficiency in the language.

HEALTH & PHYSICAL EDUCATION COURSE OFFERINGS

Course #	Course Name	Grade			Credits	Length
14001	Health and Wellness I	9			0.5	Half year
14002	Health and Wellness II		10	11	12	0.5
15001	Personal/ Activity Fitness	9			0.5	Half year

15002	Project Challenge		10	11	12	0.25	1 Quarter
15003	Team Games and Competitive Team Games		10	11	12	0.25	1 Quarter
15004	Lifelong Recreational Activities		10	11	12	0.25	1 Quarter
15005	Personal Fitness		10	12	12	0.25	1 Quarter
15006	Winter Activities		10	12	12	0.25	1 Quarter
15007	Advanced Project Challenge		10	12	12	0.25	1 Quarter
15008	Dance, Movement and Yoga		10	12	12	0.25	1 Quarter
8801	Food For Life I	9	10	11	12	0.5	Half year
8901	Food for Life II		10	11	12	0.5	Half year

14001 Health and Wellness I 0.5 Credit

Prerequisite Freshman only

This required course provides young people with the knowledge and skills they need to become successful learners and healthy and productive adults. Students begin by evaluating their own level of health and move into areas of health risks, exercise and nutritional needs, communication, decision making, addictive behaviors, self-care, human sexuality, and mental illness. This is a hands-on course where students learn to take charge of their own health by practicing preventative health habits. The course frequently includes the use of technology for in-class assignments and projects. It meets state standards and is based on the National Health Education Standards.

14002 Health and Wellness II 0.5 Credit

Prerequisite: Successful completion of Health and Wellness I

This course meets state standards and is based on the National Health Education Standards. It provides advanced knowledge and skills to help students adopt and maintain healthy behaviors. Through a variety of instructional strategies, students practice the development of functional advanced health information; determine personal values that support health behaviors; develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. Advanced Health & Wellness provides students with an in-depth study of promoting personal

health and wellness, healthy eating, promoting safety and preventing unintentional injury and violence, dating violence, promoting mental and emotional health, a drug-free lifestyle, and both human development and family health.

15001 Personal/Activity Fitness 0.5 Credit

Prerequisite: Freshman only

Students will learn proper fitness concepts and exercises and be educated on the value of lifelong fitness. Students will work out in Methuen High School's state of the art Fitness Center (with cardiovascular equipment, Nautilus machines and free weights). Students will also improve their fitness through games and activities that address the same fitness concepts. Students will be expected to learn proper fitness techniques and exercises. They will learn the fundamentals of how to develop their own fitness plan. Students are expected to be motivated to improve their fitness level. They must honor all safety guidelines and provide a positive and safe atmosphere for all.

PHYSICAL EDUCATION ELECTIVES FOR GRADES 10, 11, & 12

The following courses are elective choices for sophomores, juniors, and seniors. Please note that students may repeat a course and still receive full credit (each class is a “unique” experience determined by the teacher, the classmates, and selection of activities. We want all MHS students to participate in a class that will best meet their interests, level of competition, and personal fitness needs). All electives include an emphasis on continued personal fitness.

15002 Project Challenge 0.25 Credit

Prerequisite: None

Students engaged in Project Challenge will learn the value of cooperation, communication, teamwork, and problem solving skills. They will also have the opportunity to physically and emotionally test themselves on the many challenging elements in the Larry Klimas Memorial Fieldhouse. Students will gain an understanding and respect that the success of a group depends on the contribution of all of its members and that a cooperative, supporting atmosphere encourages participation and success. Students will be expected to take the opportunity to practice positive leadership skills. By developing feelings of mutual acceptance, trust and respect for each other – as well as an increase in self confidence – they will experience all the opportunities and obstacles Project Challenge has to offer.

15003	Team Games & Competitive Team Games	0.25 Credit
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Prerequisite: *None*

This is an elective option for students who enjoy participating in traditional team sports (basketball, floor hockey, soccer, lacrosse, volleyball, team handball, speedball, softball, etc). Students will participate in a variety of team activities and be educated on the skills, rules and strategies related to the specific team sport in order to be capable of being a participant or spectator of that specific sport. Students will be expected to demonstrate teamwork, good sportsmanship and a cooperative attitude throughout the elective.

15004	Lifelong Recreational Activities	0.25 Credit
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Prerequisite: *None*

This is an elective option for students interested in participating in less competitive activities that have tremendous value as lifelong pursuits (tennis, badminton, golf, inline skating, table tennis, ice skating, walking for fitness, etc). Students will participate in a variety of lifelong/recreational activities by learning the related skills, rules and strategies. Students will be expected to demonstrate self-responsibility, positive attitude, and willingness to try new challenges throughout the elective.

15005	Personal Fitness	0.25 Credit
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Prerequisite: *None*

This is an elective option for students who are interested in learning about and improving their personal fitness. Students will train in our state of the art fitness center that includes cardiovascular machines, Nautilus style weight machines, free weights, etc. Students will design their own work out plan and participate in daily workouts to reach their fitness goals. Students will be educated on how to use and benefit from a variety of cardiovascular and strength training machines. They will be expected to be self-motivated, demonstrate proper fitness center etiquette, and bring energy and enthusiasm to their daily workout.

15006	Winter Activities	0.25 Credit
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Prerequisite: *None*

This is an elective option for students who are interested in exploring the many fitness related activities that winter can provide. Students will utilize our ice rink and athletic fields to participate in a unique set of activities that include ice skating, curling, snowshoeing, orienteering, etc. While being educated on the basic fundamentals of these winter activities, students will demonstrate an understanding of the safety concepts and an appreciation of the variety of activities that can be enjoyed in the winter season.

15007 Advanced Project Challenge 0.25 Credit

Prerequisite: None

This is an elective option for students that are interested in an extension of the Project Challenge experience they had in earlier grades of physical education. Students will participate in more advanced climbs and problem solving initiatives. Students will have the opportunity to challenge themselves on the new high level climbing elements in the Larry Klimas Memorial Fieldhouse. Students will utilize critical thinking skills to improve their problem solving strategies and leadership skills. Students will work constructively with others to accomplish goals in a group activity, demonstrating consideration for others involved.

15008 Dance, Yoga, and Movement 0.25 Credit

Prerequisite: None

This is an elective option for students that are interested in exploring and engaging in some non traditional fitness activities (dance, yoga, Geomotion, Zumba, aerobics, inline skating, power walking, etc.). Students will participate in a variety of activities that enhance their fitness level and engage in movements that will allow them to appreciate the variety of methods available to maintain a healthy lifestyle. On a daily basis students are expected to understand the fitness benefits of these activities and bring positive energy to their elective.

8801 Food for Life I 0.5 Credit

Prerequisite: None

Students will learn the fundamental skills required for the planning and preparation of a variety of basic foods. Through class instruction and laboratory practice, students will actively learn about nutrition, the Dietary Guidelines and the proper and safe handling of food during storage, preparation, and serving. Nutritional benefits of following the Dietary Guidelines will be emphasized. Students will evaluate their own nutritional needs to benefit healthy lifestyle habits for now and the future. This course satisfies .5 Wellness credits but does not replace the freshman Wellness requirement.

8901 Food for Life II 0.5 Credit

Prerequisite: Successful completion of Food for Life I

Students in this class will develop skills and focus on the preparation of specialty foods categories. Laboratory experiences and food items will include appetizers, soups, salads, salad dressings, sandwiches, entrées, side dishes and desserts. Students will learn culinary and restaurant techniques, background information, and vocabulary. Emphasis will be placed on sanitation, safety, small and large equipment usage and different cooking techniques. This course satisfies .5 Wellness credits but does not replace the freshman Wellness requirement

CAREER and TECHNICAL EDUCATION (CTE) COURSE OFFERINGS

Massachusetts Department of Elementary and Secondary Education describes CTE programs as programs that provide students with opportunities to explore career options through a course of study that includes both academic and technical or vocational courses, career planning, and work-based learning. These programs may exist either within or outside the world of career/vocational and technical education (CVTE). Programs may be understood as industry-specific offerings (e.g., carpentry, engineering, design and visual communication, etc.) and also as an array of such programs organized into an overall career and technical education/college and career readiness structure. Methuen offers four Chapter 74 certified program pathways: Biotechnology, Marketing and Finance, Early Childhood and Care, and Web Programming and Design. Biotechnology and Early Childhood and Care are both dual enrollment programs with Middlesex Community College. If students complete the course sequence in either pathway with a B- or higher, they will receive college course credit for the agreed upon equivalent courses at Middlesex Community College.

MARKETING

BUSINESS & CONSUMER SERVICES PATHWAY

Course #	Course Name	Grade				Credits	Length
901	Marketing I		10	11		1.0	Full year
902	Marketing II			11	12	1.0	Full year
903E	Marketing Externship				12	1.0	Full year
7621	Accounting I	9	10	11	12	0.5	Half year
7622	Accounting II		10	11	12	1.0	Full year

901 Marketing I **1.0 Credit**

Prerequisite: Successful completion of Algebra I

This is a general course in marketing theory and methods. Among topics discussed are the importance of marketing, the interrelationship of the different phases of marketing, the difference between the marketing of goods and services, wholesaling, retailing, pricing strategies, analysis of markets, and distribution. Participation in DECA, a national organization for all high school

students enrolled in a marketing program that will provide leadership development, civic consciousness, social intelligence, and vocational understanding is available. Students will be exposed to many careers in marketing, management, and entrepreneurship.

902 Marketing II HON 1.0 Credit

Prerequisite: Successful completion of Marketing I

This course covers marketing concepts and principles and their practical applications. Students will examine risks and challenges marketers face to establish a competitive edge. Subject matter includes economics and marketing foundations and functions with emphasis on selling, promotion and product/service management. In addition, this course will explore human resource and leadership development. Participation in DECA, a national organization for all high school students enrolled in a marketing program, will provide leadership development, civic consciousness, social intelligence, and vocational understanding. Students will also focus on the fundamentals of business ownership: independence, commitment, leadership, and effective communication.

903E Marketing Externship/Placement HON 1.0 Credit

Prerequisite: Successful completion of Marketing II

This course covers the strategies that entrepreneurial companies utilize marketing their products and services. It utilizes examples from a broad spectrum of industries. Providing students with a fundamental understanding of the total accounting cycle, they will gain knowledge of business forms, journals, and ledgers. This course contains both a lecture and a computer lab component.

7621 Accounting I **College Prep** **1.0 Credit**

Prerequisite: None

This course provides students a fundamental understanding of the total accounting cycle. Students will gain knowledge of business forms, journals, and ledgers. This course contains both a lecture and a computer lab component.

7622 Accounting II HON 1.0 Credit

Prerequisite: Successful completion of Accounting I

This course provides students a better understanding of using accounting fundamentals to help manage and operate a business. Students will build upon their knowledge of business forms, journals, and ledgers and apply it to business practices. This course contains both a lecture and a computer lab component.

COMPUTER PROGRAMMING & WEBSITE DEVELOPMENT

INFORMATION TECHNOLOGY SERVICES PATHWAY

Course #	Course Name	Grade			Credits	Length	
9101	Exploring Computer Science	9	10	11		1.0	Full year
9105	Computer Science Principles		10	11	12	1.0	Full year
9205	AP Computer Science			11	12	1.0	Full year

9101 Exploring Computer Science 1.0 Credit

Prerequisite: None

Exploring Computer Science (ECS) is a one semester introductory high school course designed to engage students in computational thinking and practice. A major aim of ECS is attracting students who might not think of themselves as “typical” candidates for computer science. ECS provides a comprehensive set of inquiry-based lessons while using a variety of tools and platforms. The course is a component of the ECS program, and a K12/university partnership committed to democratizing computer science. The curriculum focuses on three strands: Computer Science concepts, Inquiry, and Equity, which are woven into six units. Those units are Human Computer Interaction, Problem Solving, Web design, Programming, Computing and Data Analysis, and Robotics.

9105 Computer Science Principles College Prep 1.0 Credit

Prerequisite: Successful completion of Exploring Computer Science or Web Design and Programming

Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. The scope and sequence consists of five units: The Internet (structure and design), Digital Information (data visualization), Intro to Programming (using JavaScripts), Big Data and Privacy (include encryption), and Building Apps using Javascript.

9205 AP Computer Science A AP 1.0 Credit

Prerequisite: Successful completion of Computer Science Principles

Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities. Acceptable scores on the AP test may enable students to receive college credit.

EARLY CHILDHOOD AND CARE EDUCATION PATHWAY

Course #	Course Name	Grade			Credits	Length
8601	Early Childhood Exploration	9	10		1.0	Full year
8701	Early Childhood Education and Care		10	11	1.0	Full year
8604	Early Education Outplacement			12	1.0	Full year

8601 Early Childhood Exploration 1.0 Credit

Prerequisite: None

This course will explore Child growth and development from birth to the school age child. Students will study physical, emotional, cognitive and intellectual development at each stage. In order to provide a lifelike experience, students will care for the Reality Doll to mirror the care of a newborn. Students will investigate the different types of play and developmentally appropriate activities for each stage. This course satisfies .5 Wellness credits but does not replace the freshman Wellness requirement.

8701 Early Childhood Education and Care HON 1.0 Credit

Prerequisite: Successful completion of Early Childhood Exploration

This course provides the opportunity for students to participate in a pre-school internship placement. Students will be required to complete all the tasks necessary to work in a preschool. Students, who successfully complete this course with a B or better and have the recommendation of the teacher, will be eligible for ECC Certification and Northern Essex Community College articulation.

8604 Early Education & Care Outplacement HON 1.0 Credit

Prerequisite: None

This course provides the opportunity to gain experience with elementary school children. Students will be assigned a field placement at one of our elementary schools.

BIOTECHNOLOGY

MANUFACTURING, ENGINEERING, AND TECHNOLOGY PATHWAY

Course #	Course Name	Grade			Credits	Length
3524	Introduction to Biotechnology	10	11	12	1.0	Full year
3624	Advanced Biotechnology		11	12	1.0	Full year
3634	Biotech Outplacement			12	1.0	Full year
3714	Forensic Science		11	12	.5	Half year

3524 Biotechnology I HON 1.0 Credit

Prerequisite: Successful completion of Biology

Introduction to Biotechnology is an elective course within the science curriculum. Biotechnology is most widely used in agriculture, health/medical and environmental fields to manipulate biological organisms to create products that benefit humans. This course is designed to introduce the laboratory techniques and theoretical applications of biotechnology. This college preparatory course includes an introduction to biotech industry standards and advanced discussions of DNA manipulation, transformation and identification.

3624**Biotechnology II****HON****1.0 Credit**

Prerequisite: Successful completion of Biotechnology I

Biotechnology II is a hands-on course designed to improve and refine basic techniques and to learn new state-of-the-art methods, currently used in the biotechnology industry. This course focuses on the theoretical concepts and emphasizes the "hands-on" experience with advanced techniques including, but not limited to, polymerase chain reaction, ELISA, Protein purification and chromatography, and Cell Culture. The biotechnology II curriculum is designed to prepare students for both post secondary education in biotechnology as well as success in the workplace.

3634**Biotechnology Outplacement****HON****1.0 Credit**

Prerequisite: Successful completion of Biotechnology I and II

Outplacement courses in the field will be offered to Methuen High School seniors who have completed the necessary coursework in their programs of study.

3714**Forensic Science****HON****0.5 Credit**

Prerequisite: Successful completion of Biotechnology I

This half year, lab-based science elective is designed to introduce students to the principles governing the application of crime scene investigation through the application of scientific processes. Topics include: evidence collection and documentation, microscopy (analysis of hair, fiber, and textiles), handwriting analysis, fingerprinting and collection of fingerprints, DNA evidence collection and analysis, and blood splatter analysis.

FINE & PERFORMING ART COURSE OFFERINGS

Course #	Course Name	Grade			Credits	Length
Fine & Performing Arts Courses - Music						
6403	Freshman Symphonic Band/Marching Band	9			1.0	Full year
6513	Symphonic Band/Marching Band		10	11	12	1.0
6544	Honors Band			11	12	1.0
6233C	Freshman Choir	9				1.0
6503	Concert Choir		10	11	12	1.0
6534	Honors Choir			11	12	1.0

6563	Chamber Singers	9	10	11	12	1.0	Full year
6664	Ranger Jazz	9	10	11	12	0.5	Half year
6524	Dirty Hands Ink	9	10	11	12	0.5	Half year
6251	Color Guard	9	10	11	12	0.5	Half year
6881	Music Technology	9	10	11	12	0.5	Half year
6234	Music Theory I		10	11	12	0.5	Half year
6244	Music Theory II		10	11	12	0.5	Half year
6111	Keyboard I	9	10	11	12	0.5	Half year
6112	Keyboard II		10	11	12	0.5	Half year

Fine & Performing Arts Courses - Theater

6100	Theater Workshop	9	10	11	12	0.5	Half year
6101	Acting I	9	10	11	12	0.5	Half year
6204	Acting II		10	11	12	0.5	Half year
6201	Technical Theater	9	10	11	12	0.5	Half year

Fine & Performing Arts Courses - Visual Art

6300	Art Foundations	9	10	11	12	0.5	Half year
6321	Ceramics Design I	9	10	11	12	0.5	Half year
6333	Ceramics Design II		10	11	12	1.0	Full year
6361	Drawing I	9	10	11	12	0.5	Half year
6373	Drawing II		10	11	12	1.0	Full year
6393	Illustration		10	11	12	0.5	Half year
6343	Photography I	9	10	11	12	0.5	Half year
6353	Photography II		10	11	12	1.0	Full year
6491	Graphic Design I		10	11	12	0.5	Half year
6594	Graphic Design II		10	11	12	0.5	Half year
6383	Sculpture	9	10	11	12	0.5	Half year
6313	Painting		10	11	12	1.0	Full year
6465	Advanced Placement Studio Art			11	12	1.0	Full year
6444	Portfolio			11	12	1.0	Full year

Fine & Performing Arts Courses - Media Production							
12801	Electronic Media Production I	9	10	11	12	0.5	Half year
12811	Electronic Media Production II		10	11	12	0.5	Half year
12803	Studio Technology		10	11	12	0.5	Half year
12813	Electronic Media Production Seminar			11	12	1.0	Full year

MUSIC COURSE OFFERINGS

6403 Freshman Symphonic Band/Marching Band 1.0 Credit

Prerequisite: Students having prior wind and percussion playing experience

This course is an instrumental performance ensemble for Freshmen. Working together with Symphonic/marching band, the ensemble marches competitively in the fall, transitioning to concert performance for winter and spring. Public performances are an integral and required component of the course. Students are eligible and encouraged to audition for state and district festivals.

6513 Symphonic Band/Marching Band 1.0 Credit

Prerequisite: Completion of Freshman Band and/or permission of Band Director

Continuing the development of individual and ensemble skills honed in the Freshmen Band, the Symphonic Band is the primary instrumental performance group. As with other performance classes, all performances form an essential and required part of the course. Students are eligible and encouraged to audition for state and district festivals.

6544 Honors Band HON 1.0 Credit

Prerequisite: Juniors and Seniors only who have enrolled in the band program since grade 9

Meeting at the same time and having the same course expectations as Symphonic/Marching Band, students will have additional requirements: study with a private instructor, provide documentation, OR participate in a high level student or community instrumental ensemble, OR perform a successful audition and participate in senior district, junior district, or All State, OR complete a project of the student's design with advance approval from the band director.

6233C Freshman Choir 1.0 Credit

Prerequisite: Students with prior choral experience, successful audition, or permission from the instructor.

This course cultivates and develops principles of singing through vocal techniques and music reading. Public performances, often scheduled outside the school day, are considered an integral and mandatory component of the course and will constitute a significant portion of the student's quarterly grade.

6503 Concert Choir 1.0 Credit

Prerequisite: Completion of Freshmen Chorus, successful audition, or permission of the Choral Director

This course is a vocal/choral performance ensemble typically with prior performance experience. Performance literature is drawn from a variety of styles from classical to folk, popular, contemporary, and jazz. The course expands the student's singing and reading skills. Public performances, often scheduled outside the school day, are considered an integral and mandatory component of the course and will constitute a significant portion of the student's quarterly grade.

6534 Honors Choir HON 1.0 Credit

Prerequisite: Juniors and Seniors only who have enrolled in the choir program since grade 9

This course is for advanced choral singers who meet the prerequisite for the course. Meeting at the same time and having the same course expectations as concert choir, students will have additional requirements: Completion of a minimum of two years in a choral ensemble with a B+ or better, junior or senior year at Methuen High School, participation in one performing event outside of the regularly scheduled concerts, and permission from the director.

6563 Chamber Singers 1.0 Credit

Prerequisite: Successful audition or permission of the Choral Director

This is an advanced choral ensemble for students intending to pursue vocal music. Students will perform small ensemble, multipart, (often unaccompanied), literary, and performance regularly for concerts and other aural opportunities.

6664 Studio/Jazz Band 0.5 Credit

Prerequisite: Successful audition or permission of the director

This is an advanced instrumental performance ensemble open to students by audition only. Candidates for this course should be able to read music fluently and play accurately on the following instruments: voice, flute, clarinet, saxophone, trumpet, trombone, guitar, string or electric bass, piano, vibes, and drum set. The ensemble rehearses one evening per week from

November to June and performs several times throughout the course of the year in a wide variety of venues. Students eligible to audition must be members of symphonic band or concert choir unless approved by the director.

6524 Dirty Hands Ink (DHI) 0.5 Credit

Prerequisite: Successful audition or permission of the director

This is an advanced instrumental performance ensemble open to students by audition only. Candidates for this course should be able to sight read fluently and have strong experience playing wind and/or percussion instruments. The ensemble relies heavily on rhythmic, improvisation, and creative skills. DHI rehearses one to two evenings per week from November until June, and performs a number of times in the spring semester. Students eligible to audition must be members of symphonic band or concert choir.

6251 Color Guard 0.5 Credit

Prerequisite: Successful audition or permission of the director

Color guard is the auxiliary unit of the competitive marching band for the fall season. This group is expected to perform with the marching band at all competitions, football games, and parades providing enhancement through the use of flags, rifles, sabers, dance, and other equipment which complements the band show. Color guard is expected to attend all after school and weekend band rehearsals, as well as band camp in August. Music experience is not required; however, it is encouraged that students have experience in dance or another physical activity which requires practice in precise timing of body movement.

6881 Music Technology (Creating Digital Music) 0.5 Credit

Prerequisite: Prior musical background is useful but not required

Designed to introduce the student to MIDI sequencing and recording techniques, students in this course use keyboard/computer workstations. They will develop digital recording techniques and making and mixing techniques to create a portfolio of original, digitally produced works.

6111 Keyboard I 0.5 Credit

Prerequisite: None

This is an introductory course designed to increase and develop students' music literacy skills through the use of the music keyboard. It incorporates an overview of musical styles and periods as they relate to performance and terminology.

6112	Keyboard II	0.5 Credit
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Prerequisite: *Teacher recommendation*

In Part Two, students continue the study of piano playing from Keyboard Fundamentals. This course encompasses more challenging piano repertoire, coordination between both hands, music theory, piano technique, and keyboard improvisation and harmonization.

6234	Music Theory I	0.5 Credit
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Prerequisite: *Teacher recommendation*

Part One of a sequential course designed for students intending to pursue further musical study, it focuses on the theoretical aspects of music and how it is written. This course covers the elements of scales, intervals, harmony, counterpoint, ear training, and elementary forms of composition. Students enrolled in this course should possess a working knowledge of musical notation and application

6244	Music Theory II	0.5 Credit
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Prerequisite: *Teacher recommendation*

This course prepares students to pass the Music Theory college entrance exam. In Part Two, students continue the theoretical study of music from Theory I. This course encompasses modern scales and twelve-tone techniques, modes, advanced harmony, and 20th Century compositional techniques.

THEATRE COURSE OFFERINGS

6100	Theatre Workshop	0.5 Credit
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Prerequisite: *None*

This is an entry level theatre class for students interested in theatre and acting. Students will play theatre games, learn about the basics of the stage and perform in a one act play. The focus will be on participation, effort and the basics of stage performance. Participation in one act performances is a requirement.

6101	Acting I	0.5 Credit
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Prerequisite: *None*

This course encourages students to examine acting as an exploration of self. Students will learn basic skills needed to improvise individually and collectively with expression. The course will

cover character development, mood, techniques of collaboration, as well as improvisation versus scripting. Active participation is an essential component of the course. (NOTE: formerly Introduction to Theatre)

6204 Acting II 0.5 Credit

Prerequisite: Teacher recommendation

This course is designed for the advanced acting student and will delve deeper into script, scene, and character analysis. Students will hone their vocal and physical acting skills and learn techniques in performance preparation and relaxation. In addition, students will be introduced to a variety of classic plays and study different methods in acting. Students will also work on improvisation skills through skits, drama games, and improvisational exercises. Active participation is an essential component of this course.

6201 Technical Theatre 0.5 Credit

Prerequisite: None

This course is designed for the non-performer, and will expose students to a number of backstage techniques. Students will design and construct sets and props, work on costume design and fabrication, and gain experience with theatrical lighting and sound. This class will provide all technical assistance to the department's theatre productions.

VISUAL ARTS COURSE OFFERINGS

6300 Art Foundations 0.5 Credit

Prerequisite: None

Designed as an introductory course, Introduction to Visual Art provides a comprehensive design foundation that will introduce and reinforce the elements of visual design – line, pattern, shape, color, and texture in a variety of two and three dimensional art pieces. Each unit of study will lead students through an examination of the elements and principles of design and their applications to a variety of art media. Media used will include painting, drawing and printmaking to sculpture and construction.

6321 Ceramic Design I 0.5 Credit

Prerequisite: None

In this course, students will learn a variety of techniques for working with clay and glazes in order to form both functional and sculptural pieces. Students will design and create projects from start to finish. Creative thinking, problem solving, use of elements and principles of design are emphasized.

6333 Ceramic Design II 0.5 Credit

Prerequisite: *Teacher recommendation*

This course builds on the skills developed in Ceramics I. The focus is on more complex designs and techniques of execution. Works formed on the pottery wheel are demonstrated and tried. Personal style, creativity, design and expression are emphasized in this course.

6361 Drawing I 0.5 Credit

Prerequisite: *None*

This course is designed for the student wishing to explore and expand his/her interest in drawing. The first portion of the class will introduce pen and pencil techniques on both observational and creative original subjects. The second part of the course will stress composition, drawing figure, face, and proportions using combined media.

6373 Drawing II 0.5 Credit

Prerequisite: *Teacher recommendation*

This course is designed for the student who wants to develop more advanced techniques and accomplish longer, more complex drawing assignments. Drawing II is an essential preparatory course for Portfolio and for college course work in visual art.

6393 Illustration 0.5 Credit

Prerequisite: *Teacher recommendation in Drawing I*

This advanced course will continue to develop the students' drawing skills and teach techniques in Illustration. The class will focus on the creation of images demonstrating ideas and concepts for a wide variety of published media, video games, animation, and films. Students will discuss and design a variety of types and styles of illustration and the work of famous illustrators.

6343 Photography I 0.5 Credit

Prerequisite: *None*

This course is designed for the student wishing to explore and expand his/her interest in photography. The course uses digital cameras and techniques, with emphasis on an historical overview of photography as an art form and what constitutes a high quality photograph. Some darkroom photography may be introduced.

6355 Photography II 0.5 Credit

Prerequisite: *Teacher recommendation*

In this course, students will learn the fundamentals of black and white photography, the use of thirty-five (35) mm cameras, photographic composition, and the developing and printing of

negatives and prints. The course will progress to advanced digital photo, advanced camera and darkroom techniques, including infrared photography, and double exposure compositions.

6491	Graphic Design I	0.5 Credit
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Prerequisite: *Successful completion of one of the following courses: Drawing I, Ceramic Design I, or Photography I*

This course is designed to provide visual art students with real world applications used in publication in commercial and artistic venues – communicating ideas, branding, marketing and sales. Students will be introduced to the principles of business design, processes and product development. Current software applications will be used – Adobe CS Premium Design, Illustrator and Photoshop.

6594	Graphic Design II	0.5 Credit
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Prerequisite: *Teacher recommendation*

This course continues the course work of Graphic Design, using the computers and technology as the medium and tool of design. It provides advanced techniques in page layout, illustration, and image manipulation using industry-standard software programs - Photoshop and Illustrator. The course advances to a higher level of concept development, creating ideas, and visual communication, using research and higher order analysis of visual effects, impressions, and image communication. This course, building on the conceptual foundations of Graphic Design I, offers the steps to visual thinking and the psychology of visual design. Qualifying scores may earn college credit.

6383	Sculpture	0.5 Credit
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Prerequisite: *None*

This advanced course will develop the students' skills and techniques in sculptural form. The class will focus exclusively on three dimensional projects. Students will understand the process of drawing and sketching of images as a precursor to construction. They will create sculptures through the use of various media and materials. The class will also gain an overview of the history of sculpture in cultural and environmental contexts and prepare works for exhibit.

6313	Painting	1.0 Credit
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Prerequisite: *Teacher recommendation in Drawing I*

This full year course develops skills and techniques in a variety of painting media: watercolor, acrylic, pastel, ink, and mixed media. Students will study painting techniques and principles employed by master and contemporary artists on both canvas and paper. Emphasis is placed on developing conceptual expertise in color, value, and strongly balanced composition.

6444**Portfolio****HON****1.0 Credit**

Prerequisite: Successful completion of one of the following courses: Drawing II, Ceramic Design II, Painting, or Photography II

Students who are planning to attend an art school or college will have opportunities to prepare portfolios. Students planning to fulfill the requirements of the Advanced Placement art examination/portfolio will direct their efforts toward addressing the project criteria. The second half of the year, students will be expected to work in a variety of media and will perform art related school activities such as posters, murals and exhibits.

6465**AP Studio Art****AP****1.0 Credit**

Prerequisite: Successful completion of one of the following courses: Drawing II, Ceramic Design II, Painting, or Photography II

In this course, students will work on college level art pieces in preparation for the portfolio exam and in completion of a college entrance portfolio. This consists of twenty-four (24) pieces in a variety of media. Students will select an area of concentration for research and development. Portfolio (6444) may also be taken for honors level (4) credit with reduced course requirement for those students who wish to develop a portfolio only for college application. Students should have a minimum of three (3) semesters of art courses at the introductory and intermediate levels in preparation for Portfolio, preferably having completed or enrolled concurrently in either Drawing II or Painting.

MEDIA COURSE OFFERINGS

12801**Electronic Media Production I****0.5 Credit**

Prerequisite: None

Part One of a sequential course designed for students intending to pursue college or professional careers in media technology will explore image creation, graphic design, techniques of video production, and industry-standard presentation software. It will expand student knowledge and skill in digital image technology. [NOTE: EM I and EM II contains as course requirements that students will perform on-camera, including narrations, interviews, news anchoring, editorial comment, and limited acting.]

12811**Electronic Media Production II****0.5 Credit**

Prerequisite: Teacher recommendation

In Part Two, students will explore various forms of visual presentation. They will acquire the ability to manipulate images and text, create and manage presentation slides, expand digital photography skills, appreciate the interdependent relationships between image editing and

presentation software, explore interactive Web content techniques, and integrate multiple software applications.

12803 Studio Technology College Prep 0.5 Credit

Prerequisite: Teacher recommendation

This course is designed to allow students who have acquired multi-media production knowledge to strengthen their abilities and to augment visual production skills using state-of-the-art, industry-standard technology likely to be encountered in the broadcast field.

12813 Electronic Media Production Seminar HON 1.0 Credit

Prerequisite: Teacher recommendation

Production Seminar is designed for individual students to create in an advanced media format. Students will use various digital editing techniques, including Avid, Final Cut Pro and iMovie. They will be responsible for designing and executing projects related to the general Methuen High School community – events, special projects, as well as the development of the student's individual ideas from conception to finished product.

LEADERSHIP EDUCATION TRAINING COURSE OFFERINGS

Course #	Course Name	Grade				Credits	Length
9901	Leadership Education Training 1	9	10			1.0	Half year
9913	Leadership Education Training 2		10	11	12	1.0	Full year
9921	Leadership Education Training 3			11	12	1.0	Full year
9931	Leadership Education Training 4				12	1.0	Full year
9941	Leadership Education Training 5				12	1.0	Full year
9951	Leadership Education Training 6				12	1.0	Full year

9901	Leadership Education Training 1	0.5 Credit
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Prerequisite: *None*

A semester-length course of instruction is offered in the following subjects: The Spirit of American Citizenship and Army ROTC, Techniques of Communications (note taking, study habits, test taking and oral presentations,) Leadership, Physical Fitness, First Aid, Map Reading, American Military History, Your American Citizenship, Marksmanship Customs and Courtesies, Contemporary issues, and Drill and Ceremonies.

9913	Leadership Education Training 2	1.0 Credit
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Prerequisite: *Successful completion of Leadership Education Training 1*

A full year of instruction is provided in the following subjects: Techniques of Communication, Leadership Traits, Physical Fitness, First Aid and Hygiene, and Geography. Particular emphasis will be placed on American History, American Citizenship, the Role of the Armed Services, and Contemporary issues. Primary documents for U.S. History will include: The Mayflower Compact (1620), The Declaration of Independence (1776), The Northwest Ordinance (1787), Selected Federalist Papers, 1, 9, 10, 39, 51 and 78 (1787-1788), The Bill of Rights (1791), The Seneca Falls Declaration of Sentiments and Resolutions (1848), Frederick Douglass' Independence Day Speech at Rochester, New York (1852), and Abraham Lincoln's Gettysburg Address and Second Inaugural Address (1863 and 1865).

9921	Leadership Education Training 3	1.0 Credit
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Prerequisite: *Successful completion of Leadership Education Training 2*

This course includes a full year of instruction in the following subjects: Application of Leadership Principles, Application of Communication Techniques, Physical Fitness, Orienteering, Military History, Staff Organization, Marksmanship, Drill and Ceremonies, and Map Reading.

9931	Leadership Education Training 4	1.0 Credit
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Prerequisite: *Successful completion of Leadership Education Training 3*

This sequential course builds on a full year of instruction in the following subjects: Placed in a leadership or instructor position within the Cadet Battalion, Application of Methods of Instruction, coaching of physical fitness exercises, responsibilities of leadership, Military Staff Organizations, Presentation of Staff Briefings, Assumption of Command and/or Staff Responsibilities within the JROTC program.

9941

Leadership Education Training 5

1.0 Credit

Prerequisite: *Successful completion of Leadership Education Training 4*

This sequential full year course of instruction includes the following subjects: Placed in a leadership or instructor position within the Cadet Battalion, Application of Methods of Instruction, coaching of physical fitness exercises, responsibilities of leadership Military Staff Organizations, Presentation of Staff Briefings, Assumption of Command and/or Staff Responsibilities within the JROTC Program.

9951

Leadership Education Training 6

1.0 Credit

Prerequisite: *Approval of LET/JROTC Department Chair*

Placed in a leadership position within the Cadet Battalion, Advanced Instruction to cadets will include instruction and monitoring of physical fitness criteria, Responsibilities of Leadership, Military Staff Organization, and Presentation of JROTC program of instruction, Assumption of Command and/or Staff Responsibilities within the JROTC program.

SPECIAL EDUCATION DEPARTMENT

In accordance with Commonwealth of Massachusetts Regulation 28 and the Federal Individuals with Disabilities Education Act (IDEA), Methuen High School's Special Education Program provides a continuum of educational services for students who meet the eligibility criteria. Students must have a documented disability, be unable to make effective progress in school as a result of the documented disability, and require specially designed instruction and/or related services to access the curriculum. Special Education staff work closely with students, teachers, and parents/guardians to monitor student progress and to modify and support the regular academic program to meet student needs.

Through the Team process, an Individualized Education Program (IEP) is developed to meet the needs and interests of each student and provide each student access to the general education curriculum in the least restrictive environment in order to help him/her transition from high school to life after high school.

The goal of the Methuen High School Special Education Department is to enable students to access the general education curriculum. It is our objective to give students the skills they need in order to pass the statewide assessment testing either by passing the standard MCAS exam with/without accommodations or the Alternative Assessment MCAS exam (MCAS - Alt portfolio).

Students' academic achievement, identified by the Team as participating in the MCAS Alt portfolio, will be measured based on "alternate achievement standards," and "participation in an alternate assessment may eventually delay or otherwise affect completing the requirements for a diploma."

Each student at Methuen High School on an IEP is assigned to a liaison who oversees IEP compliance, chairs annual review meetings, facilitates communication between home and school, and works with students on their respective caseloads.

For questions regarding the Special Education programs at Methuen High School, please contact the High School Special Education Coordinator at (978) 722-6040 x2375.

ENGLISH LANGUAGE ACQUISITION COURSE OFFERINGS

The English Language Acquisition Department provides instruction for English Learners (ELs) who are working towards developing their English proficiency which will allow them to fully participate in the academic and social life of Methuen High School. The department offers a full range of courses in English, history, math and science that are taught with a focus on the linguistic and academic learning needs of English Learners, as well as English Language Development (ELD) courses for each proficiency level.

Course #	Course Name	Grade				Credits	Length
14123	English I for English Learners	9	10	11	12	1.0	Full year
14223	English II for English Learners	9	10	11	12	1.0	Full year
14323	English III for English Learners	9	10	11	12	1.0	Full year
14423	English IV for English Learners	9	10	11	12	1.0	Full year
14113	English Language Development I	9	10	11	12	1.0	Full year
14213	English Language Development II	9	10	11	12	1.0	Full year
14313	English Language Development III	9	10	11	12	1.0	Full year
14413	English Language Development IV	9	10	11	12	1.0	Full year
14504	English Language Development V	9	10	11	12	1.0	Full year
14143	History Topics for English Learners	9	10	11	12	1.0	Full year
14253	U.S. History I for English Learners	9	10	11	12	1.0	Full year
14343	U.S. History II for English Learners	9	10	11	12	1.0	Full year
14003	Science Topics for English Learners	9	10	11	12	1.0	Full year

14133	Math for English Learners	9	10	11	12	1.0	Full year
14233	Algebra for English Learners	9	10	11	12	1.0	Full year
14333	Geometry for English Learners		10	11	12	1.0	Full year

14123 English I for English Learners College Prep 1.0 Credit

Prerequisite: *W-APT or ACCESS score between 1-1.9*

This course is for students who have recently arrived in this country. Students will learn social and academic English and will acquire some understanding of American culture. There will be a focus on vocabulary, grammar, receptive language, oral communication, beginning reading and writing, and study skills.

14113 English Language Development I College Prep 1.0 Credit

Prerequisite: W-APT or ACCESS score between 1-1.9

Students enrolled in English I are concurrently enrolled in 14113 English Language Development 1. This course is designed to build the listening, speaking, reading and writing skills of newly arrived students in the following areas: identifying letters, ordinal and cardinal numbers; greetings; basic vocabulary for social interactions; asking questions and producing responses.

14223 English II for English Learners College Prep 1.0 Credit

Prerequisite: Successful completion of English I and ELD I or W-APT/ ACCESS score between 2-2.9

This course is for students who are progressing in their knowledge of English but are still emerging in academic and social language. All four domains of the English language will be focused on and there will be an emphasis is on listening, speaking, reading and writing for social and academic settings. The curriculum increases in academic complexity from the SEI-ELA 1 curriculum.

14213 English Language Development II College Prep 1.0 Credit

Prerequisite: Successful completion of English I and ELD 1 or W-APT/ ACCESS score between 2-2.9

Students enrolled in English II are concurrently enrolled in the 14213 English Language Development II. This course is designed to build the listening, speaking, reading and writing skills of students who are developing their English proficiency. Students will develop skills to be able to answer questions on everyday activities with detail, participate in short conversations, give instructions and directions, and to express likes and dislikes.

14332

English III for English Learners

College Prep

1.0 Credit

Prerequisite: *Successful completion of English II and ELD II or W-APT/ ACCESS score between 3-3.9*

This course is for students who understand most conversational English, and some academic language. Students will continue to gain proficiency in grammar, academic vocabulary acquisition, speaking, listening, reading comprehension, and writing. Academic expectations are that students will be completing similar readings, projects and writing assignments as students in a general education English class but with teaching practices that accommodate the specific needs of ELs.

14313

English Language Development III

College Prep

1.0 Credit

Prerequisite: *Successful completion of English II and ELD II or W-APT/ ACCESS score between 3-3.9*

Students enrolled in English III are concurrently enrolled in 14313 English Language Development III. This course continues to build the listening, speaking, reading and writing skills of students who are developing their English proficiency. Students will develop skills to be able to respond to statements, questions and commands using expanded vocabulary, follow multi-step directions and instructions, use context clues to identify main idea and details, and distinguish language use in informal and formal settings.

14423

English IV for English Learners

College Prep

1.0 Credit

Prerequisite: *Successful completion of English III and ELD III or W-APT/ ACCESS score between 4-4.9*

This course is for students who are close to exit level. Students will continue to gain proficiency in grammar, academic vocabulary acquisition, speaking, listening, reading comprehension, and writing. Students will study similar topics in a general education English class, but with teaching practices that accommodate the specific needs of ELs. Listening, speaking, reading and writing skills are emphasized. This is the final course in the English for English Learners sequence.

14413

English Language Development IV

College Prep

1.0 Credit

Prerequisite: *Successful completion of English III and ELD III or W-APT/ ACCESS score between 4-4.9*

Students enrolled in English IV are concurrently enrolled in 14413 English Language Development IV. This course continues to build the listening, speaking, reading and writing skills of students who are developing their English proficiency. Students will develop skills to be able to follow multi- step directions and instructions, distinguish between facts and opinions in conversation, recognize common idiomatic expression, determine meaning of new vocabulary using context clues and compare information presented in two or three different sources.

14504 English Language Development V College Prep 1.0 Credit

Prerequisite: Successful completion of English IV and ELD IV or W-APT/ ACCESS score between 4.0-5.0

This course is for students who have successfully completed the SEI ELA 4 and ESL 4 courses but have not reached the exit criteria on the ACCESS assessment (4.2 Overall Score and 3.9 Literacy Score). Students who are in ELD 5 are generally in all mainstream courses.

14143 History Topics for English Learners College Prep 1.0 Credit

Prerequisite: *W-APT or ACCESS score between 1-1.9*

This course is designed for English Learners who are enrolled in English 1 for English Learners. In this course, students will be introduced to the US system of democracy, build their background knowledge of US government landmarks and symbols and their significance, and understand the need for the three branches of government and how they operate together.

14253 U.S. History I for English Learners College Prep 1.0 Credit

Prerequisite: Successful completion of History Topics for English Learners and/or W-APT/ACCESS scores between 2.0-2.9

This course is designed for English Learners who are enrolled in English 2 for English Learners. In this course students will have a review of geography, timelines and primary sources. Students will then study the time period of 1492-1865 in the United States. Topics covered but not limited to include First Americans and Explorers including Columbus, early settlers (Pilgrims), U.S. colonies, wars (French and Indian, American Revolution, 1812, U.S. Civil War), U.S. documents (Mayflower Compact, Declaration of Independence, the Constitution), the three branches of government and their functions, Lewis and Clark, Westward Expansion, Andrew Jackson, Trail of Tears, slavery, and Abraham Lincoln. Students will engage in activities similar to students in a mainstream history course but with teaching practices that accommodate the specific needs of ELs.

14243 U.S. History II for English Learners College Prep 1.0 Credit

Prerequisite: Successful completion of U.S. History I for English Learners and/ or W-APT/ ACCESS scores between 3.0-3.9

This course is designed for English Learners who are enrolled in English 3 for English Learners. In this course students will study the time period of 1865 to modern times in the United States. Topics covered but not limited to include Civil War and Reconstruction, Industrialization and the Gilded Age, World War 1, Great Depression and the New Deal, World War 2, Cold War, Wars

in Asia, 21st century, 9-11, and Globalization. Students will engage in activities similar to students in a mainstream history course but with teaching practices that accommodate the specific needs of ELs.

14003	Science Topics for English Learners	College Prep	1.0 Credit
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Prerequisite: *W-APT or ACCESS score between 1-1.9*

This course is designed for English Learners who are enrolled in English 1 for English Learners. In this course, students will be introduced to the concepts covered in a mainstream biology course but with teaching practices that accommodate the specific needs of ELs. The concepts introduced in this course are Cell Biology, Genetics, Ecology, Human Anatomy and Physiology and Evolution and Biodiversity.

14133	Math for English Learners	College Prep	1.0 Credit
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Prerequisite: *Teacher recommendation*

This course is specifically designed for English Learners who have not yet had the opportunity to master mathematical foundations such as number sense (positive and negative numbers, place value, etc.), fractions, decimals, order of operations, and pre-algebra skills that would have been covered previous to entering high school. This course is taught with teaching practices that accommodate the specific needs of ELs.

14233	Algebra for English Learners	College Prep	1.0 Credit
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Prerequisite: *Teacher recommendation*

Course topics include real numbers, polynomial operations, linear equations and inequalities, linear functions and graphing, probability and statistics, algebraic applications in the workplace and other content material included in the Massachusetts Mathematics Frameworks and the National Council of Teachers of Mathematics Standards. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing. This course is taught with teaching practices that accommodate the specific needs of ELs.

14333	Geometry for English Learners	College Prep	1.0 Credit
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Prerequisite: *Successful completion of Algebra for English Learners*

Course topics include inductive and deductive reasoning, logic, angles, lines and planes, triangles, circles, areas, volumes, congruence and algebraic applications. Throughout the units of study, students will focus on recognizing and expressing mathematical concepts graphically, numerically, symbolically, and in writing where applicable. The course is aligned with the Massachusetts Mathematics Frameworks and the National Council of Teachers of Mathematics

Standards. This course is taught with teaching practices that accommodate the specific needs of ELs.

SEQUENCE OF COURSES TAKEN BY ENGLISH LEARNERS*

Courses	Level 1 Entering	Level 2 Emerging	Level 3 Developing	Level 4 Expanding	Level 5 Bridging
ELA	English I English Learners	English II English Learners	English III English Learners	English IV English Learners	General education ELA course
ELD	ELD I	ELD II	ELD III	ELD IV	ELD V
Science	Biology Topics	Co-taught biology	Co-taught biology or general education science course	General education science course	General education science course
History	History Topics	U.S. History I	U.S. History II	General education history course	General education history course
Math	Math for English Learners or Algebra for English Learners	Math for English Learners or Algebra for English Learners	Algebra for English Learners or Geometry for English Learners	Algebra for English Learners or Geometry for English Learners or General education math course	General education math course

*Due to the varied educational backgrounds of English Learners and the unique process of second language acquisition, placement into these courses is based upon many factors (age, previous schooling, transcripts, proficiency placement tests, etc...).